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Vegetable Seed Trials

H. Shoemaker

AS 18 1930

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INDEX

# Year Book for 1930

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**GRAHAM & ROSS SEED & FEED CO.**  
EVERYTHING FOR THE POULTRY FANCIER AND GARDENER  
**GREAT FALLS, MONTANA**

# AGAIN WE SERVE YOU

We wish at this time to thank our many old customers and the ever increasing number of new customers for the splendid business that we have enjoyed from them and the confidence shown our company by you.

In order to better serve you, we are introducing new policies this year, that we know you will find a real help.

## THIS YEAR

**WE PAY POSTAGE**—On all goods that can be shipped by parcel post, the printed price is all you pay.

**WE FURNISH FREE ENVELOPES—NO STAMPS NEEDED**—Just drop them in any mail box and your orders are on their way to us.

**WE GIVE FREE RADIO SERVICE**—Every Wednesday night, at 8:30 P. M. we broadcast over radio station KFBB at Great Falls, Montana, any question you may send in pertaining to poultry troubles such as housing, feeding, ventilation, and diseases.

**WE HAVE FREE PERSONAL SERVICE**—To anyone interested in poultry living in the immediate vicinity of Great Falls, our field man will be glad to call in person and help you. If you live any distance from Great Falls, just write us, and we shall gladly answer immediately.

**JUST READ THE ABOVE MESSAGE AGAIN**—Think how easy it is to order from GRAHAM & ROSS, no postage to figure, no parcel post rate to figure, and free envelopes furnished on which no stamps are needed, and a FREE SERVICE furnished you, that assures you making a handsome profit from your poultry flock, or garden.

**REMEMBER**—When you order from GRAHAM & ROSS, you are dealing with the largest dealers in Montana of poultry supplies and remedies and our 37 years of successful merchandising, assures you the best and latest in poultry equipment and seeds.

## OUR GUARANTEE TO YOU

We guarantee every article in this catalogue to be EXACTLY as pictured and described, and we will refund the purchase price if found otherwise. We guarantee all seeds, to be true to name and description and to carry the official state germination and purity test.

**A NEW FEED MILL AND ELEVATOR ADDITION**—We have just completed a large addition and installed the latest in mill and cleaning machinery and have also added additional grain storage space so that we may purchase larger quantities of choice grains at a considerable saving to us which in turn enables us to guarantee quality feeds at discount prices.

**A NEW ADDITION TO OUR RETAIL STORE**—Due to the tremendous increase in our mail order department, we were compelled to add additional store space to facilitate prompt shipment on orders. When in Great Falls, call at our store and look over our new PET DEPT. where the latest in pet supplies will be found. In addition the latest in poultry feeds and supplies are prominently displayed so you may carefully inspect each piece of merchandise and compare for yourself the quality. **WE ARE HERE TO SERVE YOU.**

GRAHAM & ROSS Great Falls, Montana.

## HOW TO ORDER

Your Name and Address should be plainly written, and you should state whether you want your merchandise to come by mail, express or freight.

**C. O. D.**—Merchandise will not be sent C. O. D. unless 25% of the value of the order is enclosed. It costs extra for C. O. D. shipments as a fee of 12c is charged by the express or postoffice.

**INSURANCE**—We are not responsible for goods after being delivered to Post Office or general carrier. If you want your order insured add the following rates to your remittance:

Up to \$5.00 .....	5c	From \$25.00 to \$50.00 .....	10c
From \$5.00 to \$25.00 .....	8c	From \$50.00 to \$100.00 .....	25c

**SMALL ORDERS**—If you want only a single packet of vegetable or flower seeds, do not hesitate to order it. We take as much pains with the small orders as we do with the large ones. Small orders for "X-L" HI-GERMINATING seeds are sure to grow larger.

**KEEP A COPY OF YOUR ORDER** and check goods when received. We use the greatest care in filling orders, but in spite of all, mistakes will occur. If so kindly notify us immediately and the same will be promptly rectified.

## PARCEL POST RATES

	First Lb. or Fraction	Each Additional Lb. or Fraction
FIRST ZONE—Within 50 miles of Great Falls .....	7c	1c
SECOND ZONE—Within 50 to 150 miles of Gt. Falls .....	7c	1c
THIRD ZONE—Within 150 to 300 miles of Gt. Falls .....	8c	2c
FOURTH ZONE—Within 300 to 600 miles of Gt. Falls .....	8c	4c
FIFTH ZONE—Within 600 to 1,000 miles of Gt. Falls .....	9c	6c

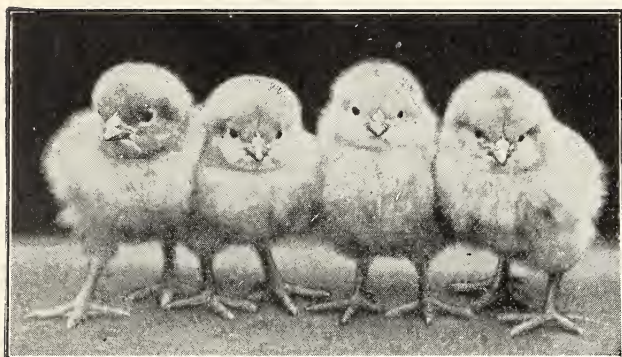
**WEIGHT LIMIT**—Packages are subject to a maximum weight in the first, second and third zones of 70 lbs.; in all other zones of 50 lbs.

**PARCEL POST C. O. D.**—Packages may be sent C. O. D. at an extra expense of 12c, which amount is added to the order.





# PROFITABLE BABY CHICKS



Sturdy Skookum Chix

Our close connection with Skookum Chix Hatcheries make it possible to give our baby chick customers an exceptional delivery service.

Skookum Chix Hatcheries of Montana have moved their headquarters to Great Falls and are located in the same building as we are. This fine, modern baby chick hatchery is under the able management of Mr. J. R. Scott, who formerly was in business at Helena. Mr. Scott's outstanding reputation and ability as a breeder and hatcheryman is recognized by every poultryman in Montana.

## PROFITABLE PARENT STOCK

The value of baby chicks may be determined by the ability of the parent stock to pay a profit. The dams of Skookum Chix are profit producing individuals or they never would have been eligible for the breeding pens.

Skookum White Leghorn chicks are from dams that have flock averages of over 200 eggs in their pullet year lay. The sires are from trapnest record dams having 250 to 300 egg records.

## SKOOKUM CHIX ARE PROFITABLE

Skookum Heavy Breed Chixs are particularly well adapted for the climatic condition of Montana. They are bred for early maturity and for size, shape, color and production ability. Meat and Eggs—a real dual purpose chicken.

## READ WHAT OTHERS SAY

Skookum Hatchery:

Jeffers, Montana, April 23, 1929

Dear Sirs:

The chickens received are fine, the first 800 are now past two weeks old and still have 794 of them, and the last 800 are just a week old today and I have 790 left. They are the finest chix I ever saw. Please send me 1600 more and I would like to have them by the 30th.

Very truly yours, R. A. PASLEY.

Muskrat Ranch, Cascade, Montana

Graham & Ross Merc. Co.  
Great Falls, Montana.

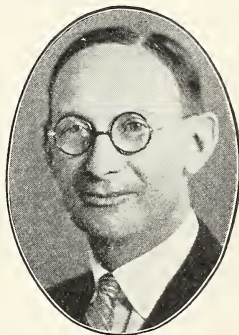
Dec. 17th, 1929

Gentlemen: Since you culled our pullets we are going along nicely, we are getting on an average of 130 eggs per day from 172 pullets that you left after culling. These pullets were purchased from the Skookum Hatchery with no guarantee of production from their ancestors, therefore we contribute the egg laying to excellent baby chix and the use of your DIAMOND "G" EGG MASH along with Cod Liver Oil.

Wishing your company a Merry Christmas and Prosperous New Year, We beg to remain,  
Ed N. Davis (President)

Yours very truly

MONTANA MUSKRAT BREEDERS, Inc.



J. R. Scott

Manager of Skookum Chick Hatcheries in Montana. Mr. Scott personally selects each individual breeding fowl used by this hatchery.

## PRICE PER CHICK EXPRESS PAID

No. Chicks	S. C. White Leghorns			R. I. Reds		Buff Orpingtons		Jersey	
	Jan. 1st to Apr. 30th	May 1st to May 31st	June 1st to July 15th	Jan. 1st to May 15th	May 16th to July 15th	Jan. 1st to May 15th	May 16th to July 15th	White Rocks	Bl'k Giants
1000 up	18c	15c	13c	18c	16c	19c	17c	19c	All Season
500	18½c	16c	14c	19c	17c	20c	18c	18c	25c
100	18½c	16c	14c	20c	18c	21c	19c	19c	30c
50	19c	16½c	14½c	21c	19c	22c	20c	20c	35c
25	20c	17c	15c	22c	20c	23c	21c	21c	40c

### STARTED CHICKS

Here is a new service for Montana Poultrymen. We have a limited number of chicks that have been started in the battery brooders. Now you can get baby chicks any time you call at the hatchery.

Started chicks will only be shipped by Express or Parcel Post where direct connections can be made.

### ADD THESE AMOUNTS TO DAY-OLD PRICE

3 days, add	-----	1c	9 days, add	-----	4½c
4 days, add	-----	1½c	10 days, add	-----	5c
5 days, add	-----	2c	11 days, add	-----	6c
6 days, add	-----	2½c	12 days, add	-----	6¾c
7 days, add	-----	3c	13 days, add	-----	7½c
8 days, add	-----	3¾c	14 days, add	-----	8c

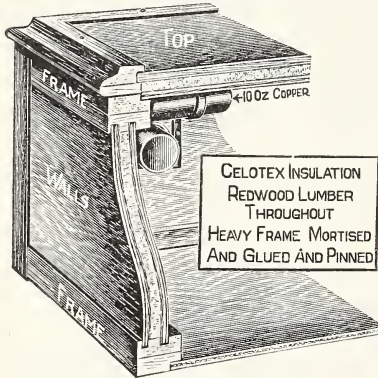
A DEPOSIT OF \$2.00 PER 100 CHICKS REQUIRED WITH ORDER

# The MaKomb 1930 Incubator for \$24.75

BRIGHT LARGE ACTIVE FLUFFY chicks always when hatched in the MA-KOMB. We have sold this machine for the past 4 years and each year we have seen new and better improvements that have made them more dependable and easier operated.

The 1930 improvements incorporate forward steps and improvements that lift them entirely out of their price class. Ventilation, heat equalization, heating systems, lamp installation, regulation, egg turning—all these have been worked out to a fine degree.

## FINEST CABINET CONSTRUCTION



## FURNITURE TYPE CABINET CONSTRUCTION

For the first time in the history of incubator manufacture, high grade cabinet construction is substituted for the old, out-of-date box. As in desks and other fine products of the furniture factories, the 1930 MAKOMB now consists of side, top, bottom and rail ends mortised and tongued together. Panel walls are set into the rails and glued. The entire frame is of 2½ inch first grade redwood. The sides consist of a double wall of Redwood with Celotex in between for insulation.

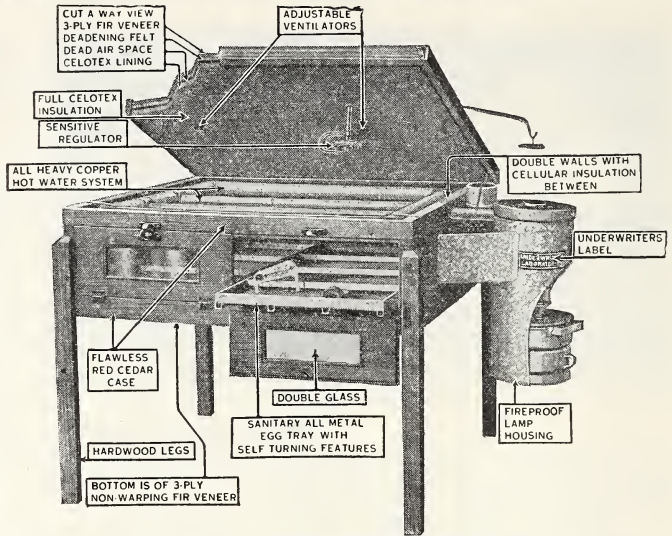
The cross section shows the furniture type cabinet construction of MaKomb incubators and the double wall panels with Celotex insulation in between. This is just one of the many hidden details making MaKomb incubators superior to others.

Instead of six pieces—the MaKomb incubator pipe line is made of only two. Boilers are oversize with outside baffles. Heavy 10-ounce pure copper gives efficiency to the heating system.

THE DOORS are hinged to the bottom so that the nursery tray may be withdrawn without disturbing the egg tray.

EGG TRAYS are built entirely of heavy gauge galvanized steel and best hardware cloth (not just window-screen) equipped with patented Self Turning feature which makes turning a matter of moments.

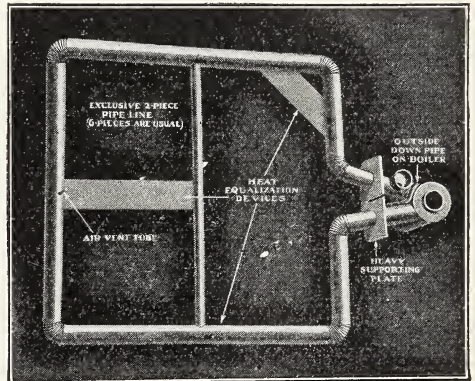
HEATING SYSTEM—Hot water heated with safety lamp and passed by The Underwriter's Laboratories.



## IMPORTANT SPECIFICATIONS

Egg Capacity	150	300	450	600	900	1200
No. Egg Trays	1	2	3	4	6	8
Length (inches)	37½	48	65	82	75	92
Width	27	37½	37½	37½	37½	37½
Height	31	31	31	31	55	55
Weight (pounds)	95	137	173	230	345	460
Price Complete	\$24.75	\$31.50	\$44.00	\$56.50	\$87.25	\$113.00

Add Freight or Express



Instead of six pieces The MaKomb Incubator pipe line is made of only two.

## The "MaKomb Giant" Coal Brooder

(patented)

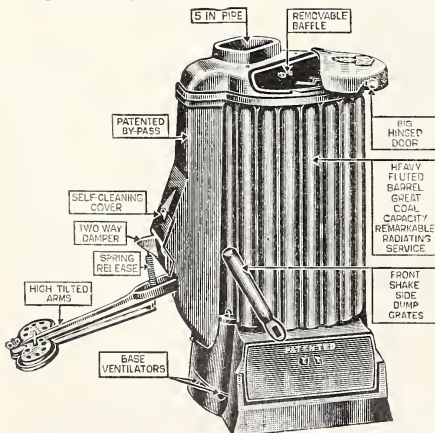
### WITH SEVEN IMPORTANT 1930 IMPROVEMENTS

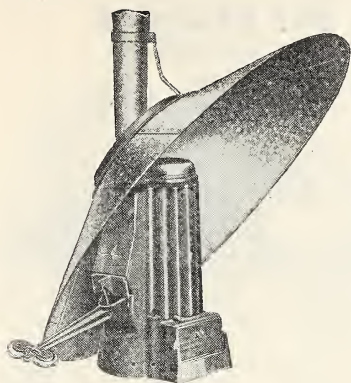
With its new 1930 improvements the "MaKomb Giant" more than ever deserves the confidence and enthusiasm which its obvious superiority has created among experienced poultrymen everywhere.

The three requirements for the ideal brooder is Coal Capacity, Control and Convenience. "MaKomb" coal capacity is 30 to 40% greater by actual test.

### SOFT COAL HANDLES LIKE HARD COAL IN THE 1930 MAKOMB GIANT

With the patented BY-PASS CONTROL found in no other brooder, high winds blow without effect because the check damper when open, pulls all the draft from the ash-pit through the by-pass and not through the fire. This absolutely prevents the fire running away. It takes this patented By-pass to handle soft coal perfectly.





## THE SEVEN 1930 IMPROVEMENTS

- (1) A new barrel with heavy flutes extending from asphalt to top improves the appearance 100% and gives more radiation per pound of coal consumed.
- (2) The position of the grates has been improved—they now shake from the front—and rock from side to side—no more dumping live coals on the litter.
- (3) Improved wafer mounting for split-degree control with slanted bracket on which chicks will not roost.
- (4) A hair-balanced damper rocking on a steel rod—responds to the slightest wafer pressure.
- (5) A hinged cover plate over the damper makes it self-cleaning and protects its action because coal, ashes or soot simply fall through the hinged cover plate.
- (6) A new streamline By-pass channel tapered top and bottom.
- (7) A new 62-inch model tapering toward the top.

## THE MAKOMB GIANT INSURES YOU THESE ACTUAL SUPERIORITIES

Largest Actual Coal Capacities—42-in., 35 lbs.; 52-in., 52 lbs.; 62 in., 73 lbs.

By-Pass control—Patented, superior.  
Removable Baffle Plate—Easy to clean.  
Exclusive Tilting Canopy—A revelation in convenience.  
Five-inch stove pipe—none bigger.  
One Piece Barrel—no joints, gas proof.  
Heavy Rocker Gates—large in area.  
The 7 1930 improvements.

**CONSTRUCTION:** Stove is heavy cast iron so substantial throughout that except when prohibited by classification we usually ship uncrated. The Canopy is made of heavy 26 gauge galvanized steel formed over accurate dies to exact dimensions with No. 6 wire rolled into outer edge to give great strength. MaKomb superior standards in every detail of selection of material and manufacture.

**REMEMBER:** The cost of the brooder is nothing to the value of the flock it helps replace. MaKomb maintains the vitality and laying power of the flock.

## SPECIFICATIONS AND PRICE LIST

Canopy Diameter (inches)...	42	52	62
Stove Pipe Size (inches)---	5	5	5
Actual Coal Capacity (lbs.)	35	52	73
Actual Chick Capacity ----	350	600	800
Shipping Weight—			
Stove Crated (pounds)---	111	132	154
Stove Uncrated (lbs.)---	101	118	139
Diameter of Grates (inches)	11	11	13
Price -----	\$19.00	\$24.00	\$29.00

Add Freight or Express

## The MaKomb Standard Coal Brooder

## WITH AUTOMATIC DOUBLE DAMPER CONTROL

The Standard's unusually efficient double damper control is but one of many points which set it apart from the ordinary run of brooders. The brooder's heavy construction, big coaling door, generous coal capacity and unobstructed top are some of the others. The Standard takes its place beside the MaKomb Giant as the best of its type yet produced.

When the Automatic Control is checking the fire, two things happen: the inner check damper obstructs the draft by rising into the flue opening. At the same time, the outer check damper opens to admit a checking flow of air into the flue. This unusual and exclusive design gives a very positive checking action surpassed only by By-Pass Control—the patented feature of the Giant.

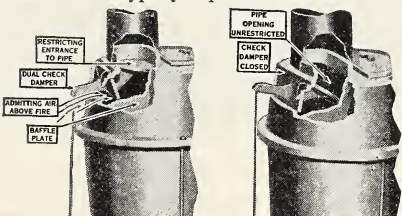
In the Standard, the Coal Door covers a full half of the top and permits fueling directly from the scuttle. The top of the stove is entirely unobstructed by dampers and other equipment, thus removing every danger of changing the adjustments while working about the stove. This feature also permits the use of a revolving canopy so that the canopy door can be brought into position to operate the shaker or adjust the thermostat without raising the canopy. In this way troublesome ropes and pulleys are entirely done away with.

**CONSTRUCTION:** Best Gray Iron throughout guaranteed against flaws. Check the weight of the Standard against all others in its class. Canopies are accurately die-cut in 28 ga. galvanized steel heavily ribbed for stiffness. The canopy ring is heavy drawn steel instead of the usual fragile cast iron.

## SPECIFICATIONS AND PRICE LIST

Canopy Diameter (inches) --	42	52	62
Stove Pipe Size (inches) ---	5	5	5
Actual Coal Capacity (lbs.)---	30	43	55
Actual Chick Capacity ----	350	600	800
Weight Stove Uncrated (lbs.)	85	97	110
Diameter of Grates (inches)---	9	9	10 1/2
List Price -----	\$16.50	\$21.50	\$24.50

Add freight or express.



Right: Fire not checked; flue open; check damper closed.

Left: Check operating, closing flue and admitting air over fire.

**THE SUPERIOR DAMPER**—A glance at the accompanying illustration will show how superior the checking action of the patented damper is to designs not sponsored by MaKomb. When the stove is being forced, the lower damper is wide open admitting air under the grates while the upper or check damper is closed. Note that this check damper really consists of two dampers cast together and acting as a unit.

## SIMPLICITY OIL BROODER

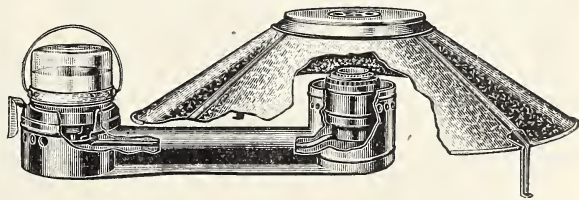
We believe that the outstanding Blue Flame Brooder value in America is undoubtedly the 1930 MaKomb Simplicity.

## CONSTRUCTION—

**CANOPY**—Made of heavy galvanized steel, die cut to set up perfectly. Outer edge stiffened with heavy steel wire. Also equipped with ventilator.

**SPECIAL BLUE FLAME BURNER**—Needs no priming and generating. Equipped with new pilot light which permits the brooder to be turned off during warm days, and started again at night without touching the canopy or burner drum.

No valves and sliding joints; patented control. (The price of the 32 inch and 42 inch size is prepaid. The other size must be shipped by express or freight.)



## Sizes and Prices

Size Canopy	Chick Capacity	Weight	Price
32 in.	150	34 lbs.	\$10.50
42 in.	250	38 lbs.	12.00
52 in.	500	51 lbs.	13.85

## Our Improved 1930 Automatic Oil Brooder

THE NEW PILOT LIGHT COMPLETES THIS WONDERFUL BROODER

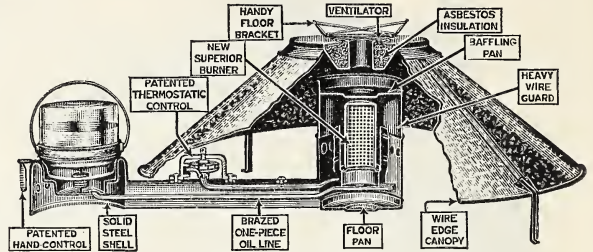
No longer is there any danger of the flame going out. On warm days there will be no generating of heat—but the pilot light will always be on guard to bring back heat with a rush should temperatures drop.

### THE IDEAL BURNER

This new model brooder is the most modern expression of recent advances in Blue Flame Oil Burners. There is no wick, no gas and no fumes. It is completely guarded—sparks cannot escape—oil cannot reach the floor or litter. Below the burner is a pan one inch deep. Around it is the steel shell and above it the closely woven heavy wire screen and deflecting pan.

### PERFECTED THERMOSTATIC CONTROL

The entire burner is raised or lowered by the action of two brass thermostatic wafers according to any change in temperature. Finely adjusted so that the least change in temperature immediately changes the flame. Absolutely automatic in action.



Sizes and Prices

Size Canopy	Chick Capacity	Weight	Price
32 in.	300 day old chicks	36 lbs.	\$14.50
42 in.	500 day old chicks	56 lbs.	16.50
52 in.	1000 day old chicks	51 lbs.	19.00

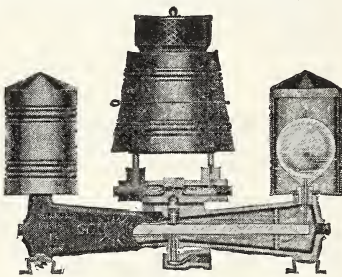
(The price on the 32 in. canopy is prepaid. The other two sizes must be shipped by freight or express.)

## NEW 1930 SOL-HOT BROODER

### The New Twin-Float Automatic Oil Level

The latest improvement and greatest invention ever developed for wickless oil burning Brooders.

The new Twin Float makes Sol-Hot as simple and easy to operate as a gas stove. It makes no difference whether your floor is level or not, you don't have to give a moment's thought to the question of oil level. The Twin-Float takes care of that automatically. You just light the burner, turn the valve to the right or left to get the size flame you want and Sol-Hot will burn the same even blue flame exactly as you set it as long as there is oil in the unbreakable metal oil container.

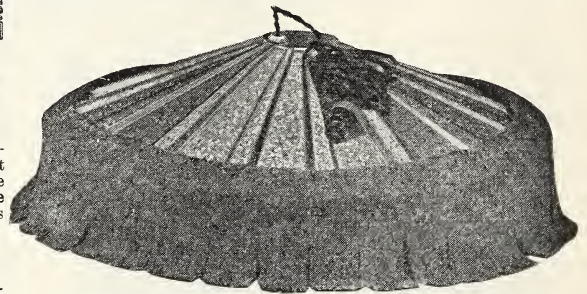


New Oil Level.

The Twin-Float takes care of that automatically. You just light the burner, turn the valve to the right or left to get the size flame you want and Sol-Hot will burn the same even blue flame exactly as you set it as long as there is oil in the unbreakable metal oil container.

## GRAHAM & ROSS' ELECTRIC BROODER —100% FUMELESS AND FIRE-PROOF, \$3.29

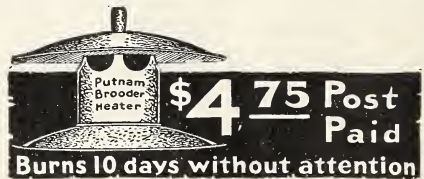
A simple, practical brooder for small flocks trouble-proof and inexpensive to operate. Uses ordinary light bulb, attaches to any socket. Body seamless heavy galvanized steel, supported on strong steel legs. Curtains of heavy flannel, slitted to permit ready movement of chicks. Bulb has steel shield to prevent glare on chicks. Complete with 10 ft. of cord and screw plug but without bulb.



Capacity 80 chicks, weight 10 lb. Price -----\$3.29  
Capacity 130 chicks. Price, postpaid -----\$6.40

### PUTNAM BROODER HEATER

The putnam brooder heater is a very popular one for home made brooders. Used with a box, approximately 32x16x10, it furnishes brooding capacity for from 35 to 60 chicks. Easy to set up and operate. Burns 10 days with one filling of oil and without any further attention. Full directions for making your own brooder furnished with each stove.



Price each, \$4.75 postpaid.

Postpaid prices of parts of Putnam Brooder-Heater: Top, \$2.50; Tank, \$1.50; Burner, \$1.25; Wick Holder, 20c; Wicks, 40c per doz., postpaid.

Notice: All brooders listed on this page have been placed to actual use by our firm and we know that if directions, that are included with each brooder, are followed excellent results will be obtained.

When in Great Falls, call at our store and look over our new Pet Department where the latest in pet supplies will be found. In addition the latest in poultry feeds and supplies are prominently displayed so you may carefully inspect each piece of merchandise and compare for yourself the quality. We are here to serve.

### NO TROUBLE, NO DANGER, NO WORRY

Why risk your chicks and property with other brooders when you can get the safe, simple and dependable Sol-Hot. Don't Take Chances.

The Twin-Float is set and adjusted at Factory and is permanent. It never has to be changed or touched again. The Twin-Float is a Sol-Hot patent, no other Brooder has it, nor can they get it. This one feature alone is worth more to you than several times the entire cost of your brooder.

THINK WHAT IT WOULD MEAN TO YOU THIS SEASON TO BE ABLE TO BROOD YOUR CHICKS WITH PRACTICALLY NO MORE WORRY OR LABOR THAN IS REQUIRED TO OPERATE A GAS STOVE.

### SPECIAL OFFER

With each purchase of a 34 or 44 Sol-Hot Brooder we will include one Automatic Thermostat regulator, the regular price of which is \$3.75, for 50c additional over the purchase price of the brooder. This special offer lasts just as long as our present supply of brooders.

## NEW MODEL 1930 TWIN FLOAT SOL-HOT BROODERS

Standard Sol-Hot Brooder, with 34 inch Canopy (capacity 250 to 300 chicks; shipping weight 36 lbs.) -----\$17.75  
Standard Sol-Hot Brooder, with 44 inch Canopy (capacity 500 chicks; shipping weight 42 lbs.) 21.00

### SOL-HOT AUTOMATIC REGULATOR

New improved automatic Thermostat regulator for Sol-Hot Brooders, simple in construction, easily attached, automatically increases or decreases the flame to meet various conditions. Weight 3 pounds. Price \$3.75, add postage. (In ordering, state size and model of brooder.)

## Our New "Makomb" Electric Brooder

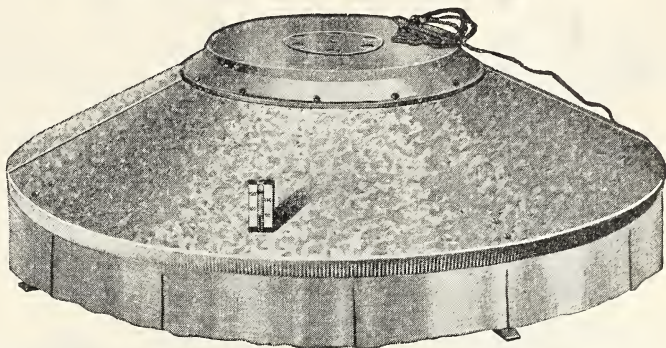
THE LAST WORD IN CAREFREE BROODING EQUIPMENT.

Perfectly Insulated  
Mercury Controlled  
Exclusive Heating System  
Positive Air Circulation.

**INSULATION.** Outside is the canopy of heavy galvanized steel. Beneath it lies a large air space, heated by the air circulating upward to the adjustable ventilator in the canopy ring. Next comes a full layer of CELOTEX, the incomparable insulator. The steel inner shell extends entirely over and across the interior and acts as a heat deflector and transmitter.

**CIRCULATION.** Circulation, not radiation, is the transmitter of heat. Only in the "MaKomb" is found that positive forced circulation which prevents stagnation. There are no sweaty chicks in the "MaKomb."

**POSITIVE REGULATION.** In the "MaKomb" is used a highly perfected MERCURY SWITCH regulator, controlled by a brass thermostat. No other type of control has been devised that can be considered dependable. This regulator is guaranteed for one year against failure in operation.



Diameter	Chick Capacity	Wt.	Price
42 inches	200	30 lbs.	\$17.75
52 inches	400	45 lbs.	\$23.25

Shipped Only by Express or Freight

## THE OIL-O-STAT

A truly great oil burning brooder with the wonderful "Twin-Blast" Burner. A Marvel of Engineering Achievement.

**FOR ECONOMY**—Distillate Burning, Sixteen Feet Flame Travel, Eliminates Labor.

**FOR SAFETY**—Limitless Heating Ability. A "Won't-Go-Out" Burner, Freedom from Fire Hazard.

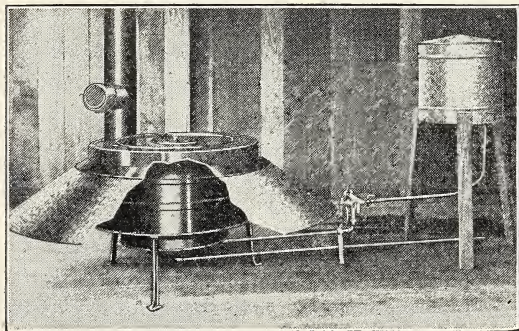
**GENERAL DESCRIPTION**—Brood any number of chicks; Safeguard under any weather conditions; Requires the minimum of attention.

**AND WILL NOT**—Go out with fuel in tank; Explode or cause fire; Subject chicks to smoke or gas; All at a price anyone can afford to pay.

**NO PRIMING NEEDED; SAVES ONE-THIRD FUEL COST.**

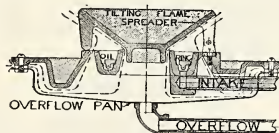
In mild weather remove the canopy and the "Oil-O-Stat" will brood any number of chicks. In zero weather place canopy over brooder and brood 800 chicks without any trouble.

This brooder is furnished with the famous "Oil-O-Stat" Automatic Control—always on guard. The automatic valve, thermostatically controlled regulates the flame to meet any temperature variations. So constructed that the "Twin-Blast" can be left absolutely without attention for weeks on end and **WILL NOT GO OUT AS LONG AS THERE IS FUEL IN THE TANK.**



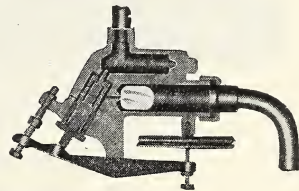
Diameter	Chick Capacity	Wt.	Price
52 inches	600	112 lbs	\$30.00
62 inches	1000	120 lbs	\$32.00

Shipped only by freight or express.

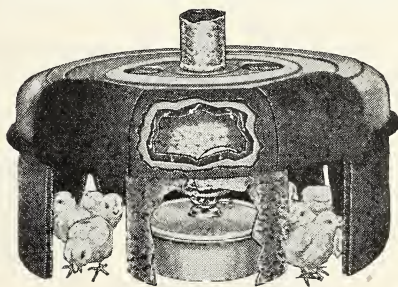


A diagram of the famous Twin-Blast burner. This unique burner forces twin columns of super-heated air over both the inside and outside of the ring of flame.

This is the new automatic control thermostatic valve. The working parts can be removed as a unit for cleaning. This valve cannot bind, or allow a too heavy flow of oil.



## THE RED HEN LAMP BROODER



This favorite brooder has a great many improvements for 1930. Heating drum has been lowered and throws more heat, eliminating fumes and smoke caused by forcing with too high a flame. Flame can be adjusted without lifting brooder. Furnished complete with slitted double curtain of heavy flannel.

50 chick capacity, postpaid -----\$4.35

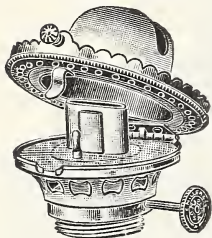
Cascade, Montana.

I think your feed is the best feed I ever fed. When I started to feed it I was only getting two or three eggs a day. Now I am getting from 6 to 8 dozen eggs a day from 140 hens. I will recommend your **DIAMOND G EGG MASH** to anyone if they want to get eggs. It's the best on the market.

Tom Prewett Jr., Box 1.

# Incubator and Brooder Supplies

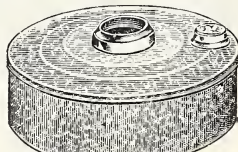
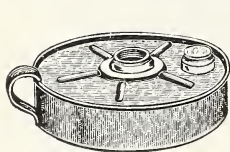
## "SUN" HINGED LAMP BURNERS



For incubators and brooders. So designed that perfect combustion is assured. Easily cleaned and trimmed.

Size	Diam. of cone in inches	Wick	Each Postpaid
1	2 1/2	5/8 in.	40c
2A	2 7/8	3/4 in.	50c
2B	3 1/2	7/8 in.	55c
3	3 1/2	1 1/8 in.	75c

## LAMP BOWLS



Heavy galvanized iron bowls. No give or spring to tops. A common fault with ordinary bowls.

No. 100, size 1 burner, 1 1/2 x 6 in., each	55c
No. 101, size 2 burner, 2 1/2 x 6 3/4 in., each	65c
No. 102, size 3 burner, 2 3/4 x 8 in., each	80c

Postpaid prices.

## RED FELT LAMP WICKS



High grade felt wicks. A big improvement over loose-woven cotton wicks. No loose threads to burn uneven and smoke.

No.	Width	For burner	Each	Per dozen
No. 1	5/8	1	3c	25c
No. 2	7/8	2	5c	45c
No. 3	1 1/2	3	6c	55c

Postpaid prices.

## LAMPS COMPLETE

No. 1 with 5/8 wick	\$1.20 postpaid
No. 2 with 7/8 wick	1.50 postpaid
No. 3 with 1 1/2 wick	1.85 postpaid

## DOUBLE WICK SUN HINGE BURNERS

No. 214. Sun Hinge Burner with two wick tubes. Gives double the heat of a single wick burner. Perfect combustion, and easily cleaned and trimmed. Made of heavy brass throughout. Size 3. Diameter of thread 1 1/4 in. Diam. of cone 3 1/2 in. Size of wicks 1 1/2 in. Each 75c postpaid.



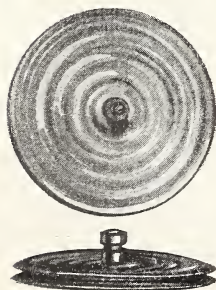
## EXPANDING SCREWS

Made of brass to increase size of burner on oil font.

Increase bowl.

No.	From Size	Postpaid	Price
206	1 to 2	Postpaid	10c
207	2 to 3	Postpaid	15c

## WAFER THERMOSTATS



For Brooders and Incubators, brass throughout, fully tested.

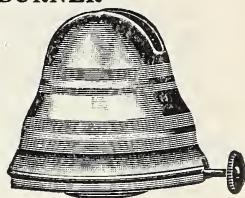
No.	Size	Ppd. Price
297	3 in.	\$0.55
298	4 in.	.80
299	5 in.	1.00

**NOTE** — When ordering state whether for brooder or incubator.

## ZENITH LAMP BURNER

A "No Chimney" burner for incubators, brooders, fountain heaters, etc. Perfect combustion without chimney. No. 1 3/8 inch wick, each 50c, postpaid.

No. 2 7/8 inch wick, each 65c postpaid.



## SMOKE PIPE FOR BROODER STOVES

Size	Length	Weight	Price
4 in.	2 ft.	2 lb.	30c
5 in.	2 ft.	3 lb.	35c



## CORRUGATED ELBOWS

Black No. 115 4 in. each 33c, postpaid. Black No. 115A 5 in. each 37c, postpaid.

## ADJUSTABLE ROOF SADDLE

Can be adjusted to any required angle from an almost flat roof to one-half pitch. Quickly locked into any position. Comes complete with rain cap but without pipe.

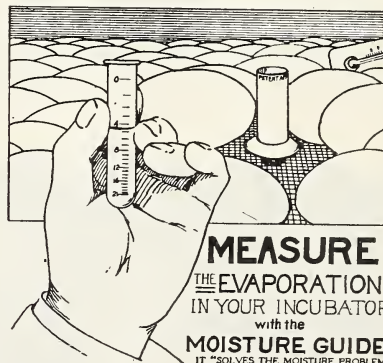
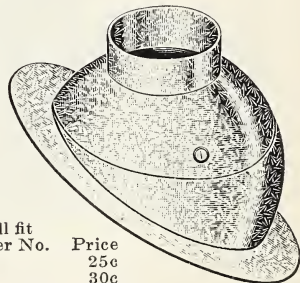
Size	Ppd. price
4 in.	\$1.15
5 in.	1.25



## METAL CHIMNEYS

For incubators and brooders. Made of sheet of steel, with round mica window.

No.	Height	Will fit Burner No.	Price
103	6 in.	2	25c
104	6 in.	3	30c



**MEASURE**  
THE EVAPORATION  
IN YOUR INCUBATOR  
with the  
**MOISTURE GUIDE.**  
IT "SOLVES THE MOISTURE PROBLEM"

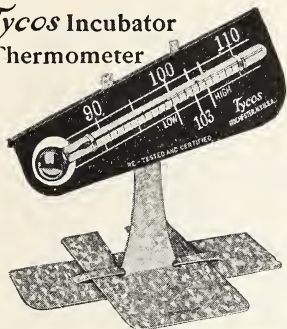
The Patterson & Young

## INCUBATOR MOISTURE GUIDE

SOLVES THE MOISTURE PROBLEM

Guaranteed Scientific, Accurate, Practical. Indorsed by Agricultural Colleges, Experiment Stations and thousands of incubator users. Adopted by incubator Companies as Equipment. Bigger hatches, better chicks; easier to raise. Works in any incubator. Attachments and instructions with each Guide. (Beware of incomplete, inaccurate imitations.) \$1.00 each; \$10.00 per dozen, postpaid.

No. 5783

**Tycos Incubator Thermometer**

When used with Stand



When used without Stand

**BROODER THERMOMETER**

Our Number 720 BROODER THERMOMETER is designed to go through the top of the brooder or hover so that the temperature can be read from the outside. The tube is sunk in the wood to guard against breakage. Black oxidized brass scale with white figures and guard.

Furnished with mercury tubes only—Each 75c, postpaid.

**INCUBATOR HYGROMETER**

Millions of chicks die in the shell every year for the want of proper moisture conditions. The Incubator Hygrometer is not a regulator of moisture, but is an indicator of conditions, so that if not correct, they may be made so. Each \$1.75, postpaid.

**"CYCLONE" TWO  
PIECE WATERERS**

Here is a practical moderate priced fountain. The unique bottom snaps quickly on and off cylinder, keeps small chicks out of water yet is readily accessible for the large fowls. Bottom fits tightly to cylinder preventing slopping when inverting. Bail is made of heavy No. 10 wire.

Size Ppd. price  
1 gal. with bail -----65c  
2 gal. with bail -----85c

**HANDY FILL CHICK FOUNTAIN**

Made of heavy galvanized iron in two pieces. The top is made with two way swinging bail which permits fountain to be carried either filled or in filling position. The one piece drinking pan with smooth rolled edge is especially designed for small chicks, yet provides a sufficient amount of water and drinking space for full grown fowl. No other fountain on the market with these desirable features. Easy to fill. Easy to clean.



No.	Capacity	Price
CW2	2 gal.	\$1.40
CW3	3 gal.	1.75

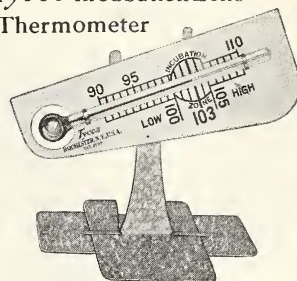
**"Tycos" Certified Incubator Thermometer Postpaid****\$1.43**

Worth the slight additional cost. Retested and Certified. Makes doubly sure. Can be used to test other thermometers. Black Scale and white figures, and every single degree graduation engraved directly on the glass tube. Complete with certificate of inspection and extra stand. Postpaid \$1.43.

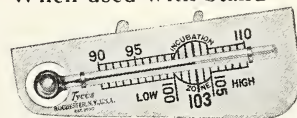
**"Tycos" Incubator Zone Thermometer Postpaid****99c**

New scale face clearly defines the safe temperature limits for incubation. White scale with black graduations makes for easy reading. Non-tipping stand, first quality mercury. Each 99c, postpaid.

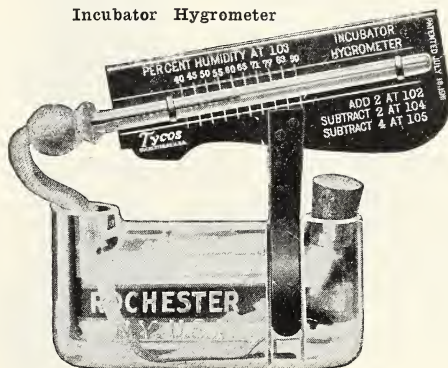
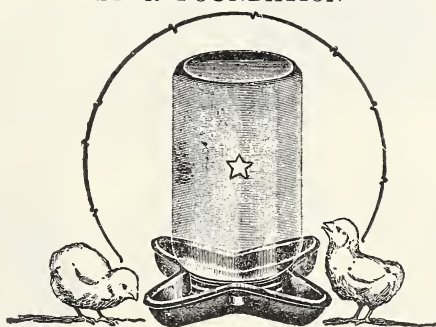
No. 5776

**Tycos Incubation-Zone Thermometer**

When used with Stand



When used without Stand

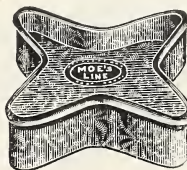
**Incubator Hygrometer****Baby Chick Supplies****STAR FOUNDATION**

Quickly screwed to a Mason jar and provides a greater drinking surface than the ordinary round fountains. Price, 15c each; 2 for 25c, postpaid. Mason jar not furnished.

**STANDS FOR STAR  
FOUNTAINS**

This stand will raise the fountain up out of the litter, making it suitable for growing chicks.

Each, 10c postpaid.



## DIAMOND G MASON JAR FOUNTAIN AND FEEDER NO. 35

### 15c

Fits any mason jar. Can be used for liquids or feeds. Diameter 6 in. with eight holes. Strong and durable, made of Galvanized steel throughout.

No. 35, each 15c, postpaid for 20c; 2 for 35c, postpaid; 6 for \$1.00 postpaid.

## DIAMOND G. SPECIAL MASON JAR BABY CHICK DRINKING FOUNTAIN

### 15c

Made of galvanized steel. Jar screws into cap in center of pan, enables you to use either pint, quart, or half gallon Mason jar. Very easy to clean. Jars not furnished by us.

NOTICE—Before using any new galvanized container for sour milk, it should be treated by allowing sour milk to stand 24 hours in container and then cleaned. Each 15c; Two for 25c, postpaid. Mason jar not furnished.

## BOTTOM FILL FOUNTAIN

Made in two pieces accurately stamped and formed. Easily filled and cleaned. The round taper shape prevents bursting from freezing. Made of the best quality galvanized iron.

No. 24, 1 gal. capacity, weight, 2 lb., each 60c postpaid.

## AUTOMATIC CHICK GREASER



The new way to rid your baby chick flock of the harmful head lice. The wick around the upper part of the greaser is saturated with oil (a mixture of two-thirds lard and one-third kerosene) and every chick

which eats out of the pan will get its head greased in a few minutes. No. G-31. Each \$1.75, postpaid.

## TILTING TOP LARGE CAPACITY FEEDER

Feeder has a tilting or swinging top so that chickens cannot perch on it. A fine feeder for large or small flocks. Capacity 17 quarts. Has 27 feeder openings on each side or a total of 54 feeder holes.

No. 141T—Each, \$2.25 postpaid.



## STOP TOE PICKING

A new common sense treatment for controlling and overcoming the vicious habit of toe, wing and vent picking of chicks. Easy to apply. As soon as toe or tail picking is noticed, apply the ointment FREELY to birds that are being picked. The taste is unpleasant but harmless, and the ointment heals chicks and will soon break them of picking.



Be sure to have a supply at chick time

**Poultrymen From CALIFORNIA TO FLORIDA ARE USING**

### F. E. CHICK PICK

**TO STOP TOE, WING AND BODY PICKING OF CHICKS**

THE GREATEST THING EVER OFFERED TO OVERCOME CANNIBALISM THERE IS NOTHING LIKE IT

THIS BLOOD COLORED OINTMENT QUICKLY BREAKS THE PICKING HABIT

**Effective Harmless Healing**

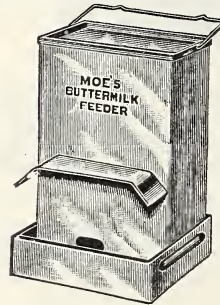
**Fritzelle, Eales & Co. COTATI CALIF.**  
Sole Feed Stores & Hatcheries from Coast to Coast.

**F. E. CHICK PICK REMEDY**  
Fritzelle, Eales & Co. COTATI CALIF.  
A COMMON SENSE TREATMENT FOR OVERCOMING PICKING OF CHICKS

**DIRECTIONS**  
Apply the ointment freely to the picked areas several times daily. Once healed, wash with soap and water. If on thick spray it off. Rubbed in soft and there is no taste to it.

Per 1/2 lb. pkg. ----- \$0.70  
Per 1 lb. pkg., postpaid ----- 1.10

## DROP-BOTTOM BUTTERMILK FOUNTAIN

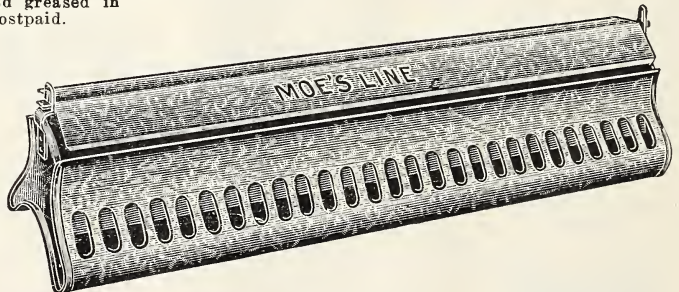
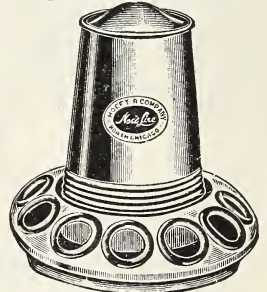


Drop Bottom Buttermilk Fountain in Tin Plate. Easy to fill and to keep clean. May be hung on the wall out of the litter. Capacity 1 gallon. Especially designed for buttermilk and sour milk.

No. 136. Buttermilk Fountain, each \$1.75, postpaid.

## ADJUSTABLE MILK FOUNTAIN

Adjustable up and down to feed slowly or rapidly, for any kind of milk or feed. Capacity about 2 quarts. Has 12 feeder holes. No. 139, weight 2 lb., each 90c, postpaid.



## 24 INCH BABY CHICK FEED TROUGH

An extremely practical feeding trough for a large number of baby chicks.

Each, 45c postpaid.

A flock of chickens properly fed and taken care of will pay the grocery bill and afford many interesting and healthful hours of otherwise wasted time. A sample of any of our feeds gladly mailed free to you.

## GRAHAM & ROSS' NEW STONEWARE FOUNTAINS AND FEEDERS

### Superior in Design and Construction

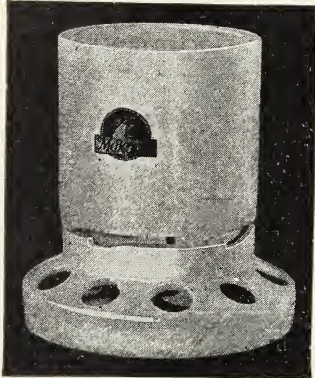
#### ADJUSTABLE FEEDER

Our new design Stoneware Feeder with exclusive Non Spill Design. Ideal for clabber or Buttermilk, as it prevents spilling when being inverted after filling, yet has large free-flowing opening when adjusted to feed.

Observe the two positions of the feeder. The upper view shows the jar placed with elevating lugs engaging recesses in lower pan. In this position the mouth of the jar



Closed to Invert



Open to Feed

is sealed against spilling the liquids. The lower view shows the jar turned on the pan so the lugs ride on the edge and the jar is elevated allowing the feed to flow.

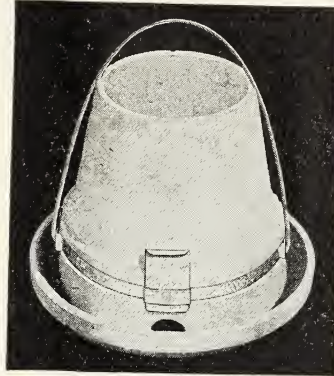
Any liquids may be fed, also thin wet mash, or dry mash. Pan has ten holes (most have only eight). Chicks cannot climb in and get wet. Construction of the best grade stoneware, glazed inside and out. Size one gallon. Price, \$1.25 postpaid.

#### IMPROVED FOUNTAIN

A really practical stoneware fountain, far superior to the usual types. This fountain can be set down to fill, bottom pan as a convenient rim for handling and the jar has a handle. The sloping sides and wide mouth make this fountain feed heavy clabber perfectly. Constructed of the best grade stoneware glazed inside and out.

Price, ½ gal. size, postpaid, 95c.

1 gal. size, postpaid, \$1.20.

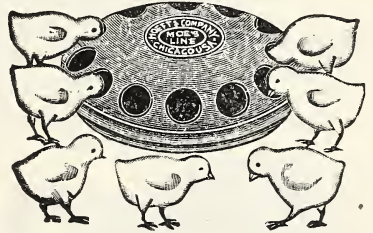


As Used

#### DIAMOND G ROUND CHICK FEEDER

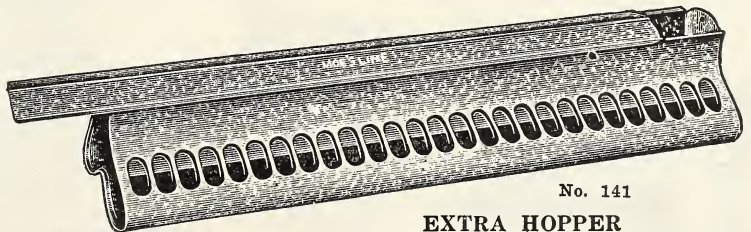
These round hole chick feeders are excellent for either dry or liquid feeds. They are raised at the center to throw the feed to the outside so all of it can be reached by the chicks.

No. A 12, 12 holes. Each 24c; postpaid 30c. Two for 50c, postpaid.



#### LARGE CAPACITY FEEDER FOR BABY CHICKS

A wonderful feeder for growing stock and a great time and labor saver when chicks are raised in large numbers. Sliding top cover, easy to fill and clean, and birds cannot roost on the cover or sides to foul the feed. Length 35 in. width 8½ in., height 7 in., capacity 17 quarts. 54 chicks can feed at one time. No. 141 weight, 8 lbs., each \$2.00, postpaid.

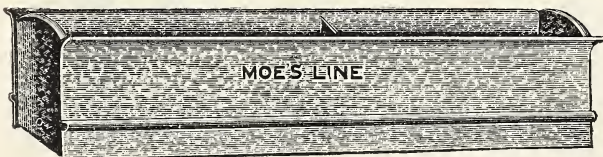


No. 141

#### EXTRA HOPPER

This hopper is made to fit on top of our No. 141 feeder and increases the capacity of the feeder by nine quarts, making a total capacity of the No. 141 of 26 quarts of feed. A great time saver.

No. 148, weight 4 lb., each 95c, postpaid.



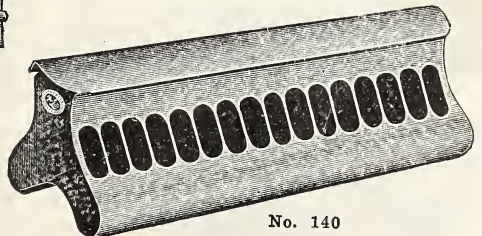
MOE'S LINE

#### EXTRA WIDE COVERS

Made of galvanized steel to fit the No. 140 and No. 141 feeders. These covers are 9 in. wide, and extend the full width of the feeders, thoroughly protecting the feeder holes.

No. 147—Cover only to fit No. 140 feeder, each 45c postpaid.

No. 149—Cover only to fit No. 141 feeder, each 65c postpaid.

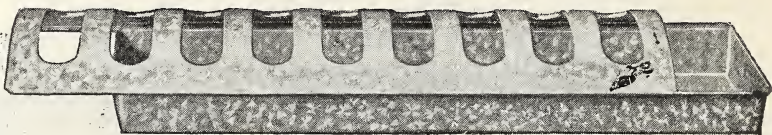


No. 140

No. 140. Made exactly the same as the Large Capacity but smaller for people with smaller flocks. Capacity 10 qts., feeding space for 32 chicks at one time. Each \$1.40; postpaid, \$1.55.

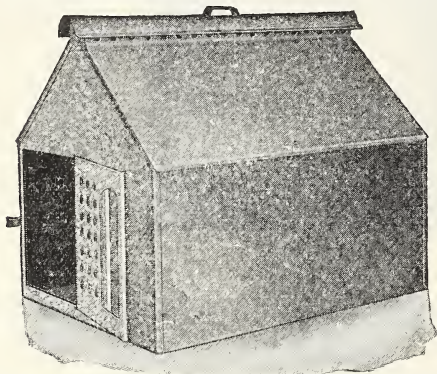
## DIAMOND G DOUBLE CHICK FEEDERS

These feeders permit the chicks to feed on both sides. Prevents waste of feed, and keeps it clean. Sliding top comes off readily for refilling. Made of heavy galvanized steel with seamless construction.



No. 10, length 10 in., 10 holes, each 24c; postpaid 30c. No. 20, length 20 in., 20 holes, each 39c; postpaid 44c.  
Two No. 10, postpaid 50c; Two No. 20, postpaid 80c.

## DIAMOND G SQUARE BROOD COOPS



Made of heavy best quality galvanized iron. Bottom removable so coop can be cleaned. Perfect shelter for both hen and chicks. Shipped collapsible to save freight and space. Width 16 ins., length 23 in., height 16 in., weight 15 lbs. Price \$2.65, postpaid.

## DIAMOND G POULTRY PUNCHES

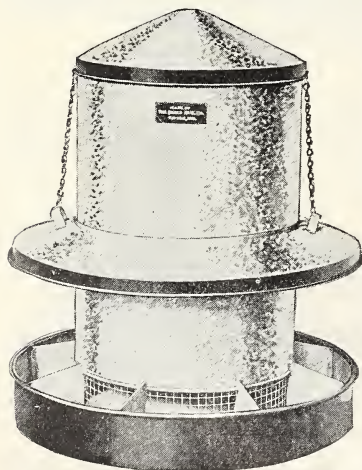
A popular and practical punch for marking baby chicks. Punches a clean hole in web between toes and will not bruise foot. Guaranteed to work perfectly. No. 38, postpaid, each 25c.



**IDEAL PUNCH**—New improved punch, scissors type; works easily, cuts clean, does not pinch foot. 40c postpaid.



## OAKES MAMMOTH ROUND FEED HOPPER



The ideal dry mash hopper for large flocks. Accommodates more fowls with less fighting and loss of feed than any other method. Fills from top and large one holds 100 lbs. of mash.

Lid hangs by chains when feeding. Price only about one-half that asked for other hoppers of similar capacity.

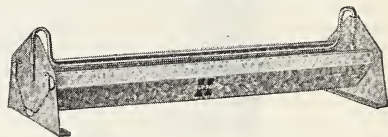
No. F-11 (with stand), 45 lbs., Each \$8.25.

F-510 Special 50 lb. feeder with stand, 32 lb., Each \$4.00.

Cannot be shipped parcel post.

Furnished with steel frame and legs to keep hopper out of litter.

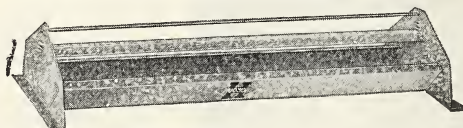
## CHICK FEED TROUGH



A new V-Shaped bottom feed hopper with flanged edge which prevents waste. Has a wire top guard that is adjustable.

No. O F 18—Length 18 inches, each, postpaid ----30c

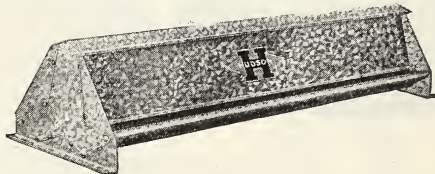
## ADJUSTABLE CHICK FEED TROUGH



This new feeder is suitable for day old to six weeks old chicks. Adjustable guard prevents chicks from getting into feed. Easily filled and cleaned.

No. O F 20—Length 20 inches, postpaid -----45c

## CAPACITY CHICK FEEDER



This new type feeder will fill a popular demand for a large capacity feeder for growing chicks. The inverted V-shape of the hopper prevents clogging. A feeder that will pay for itself many times in one season.

No. C F 20—Length 20 inches -----\$0.80

No. C F 30—Length 30 inches -----1.10

## THE CAN'T CLOG DRY MASH FEEDER

Takes very little room, offers over four feet of feeding space. Made so that it won't clog and also stops all waste of feed by the hens. It's perfectly fool proof, anybody can fill the 20 or 32 quart tank and you are sure that to the last grain, your hens get perfect, sanitary rations—all they want—and yet they cannot waste or befoul a particle of feed.

Try the CAN'T CLOG once and you'll wonder how you ever got along without it.

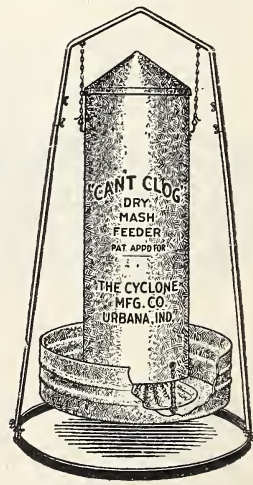
## THE FEEDER THAT STOPS WASTE

### PRICES

No. 27, 20 qts, 14 lbs., Price \$3.00.

No. 37, 32 qts., 18 lbs., Price \$3.90.

Cannot be shipped by parcel post.



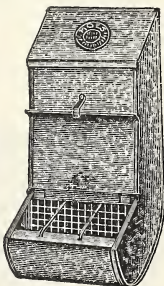
TESTED  
AND  
GUARANTEED

# POULTRY SUPPLIES

POSTPAID  
PRICES

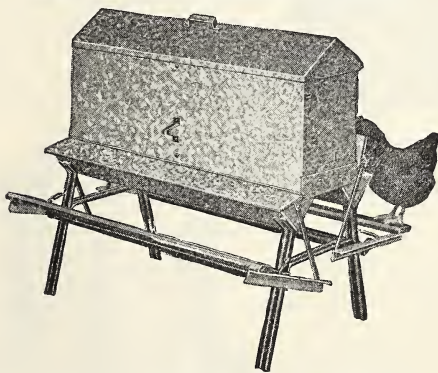
## OUR IMPROVED HANDY MASH HOPPER

These feeders will more than pay for themselves in a short time in saving in mash. The improved curved bottom keeps the feed within easy reach of the birds, and the taper shape of the hopper larger at the bottom—prevents the feed from clogging, and insures a gradual automatic feed. The slopping top prevents them from roosting on the hopper. When both covers are closed it is rat, mouse and weather proof.

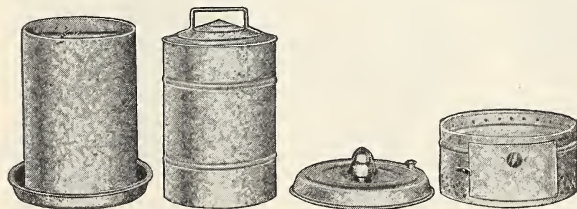


No.	Capacity	Ppd. Price
35	10 qts.	\$1.75
36	14 qts.	2.25
13	22 qts.	2.50
37	32 qts.	3.20

## MAKOMB CAFETERIA FEEDER

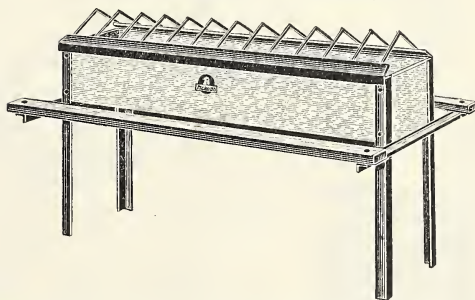


A NON-CLOGGING rat and vermin-proof giant feeder for grain or dry mash with adjustable throat. Actual capacity is 100 pounds of commercial dry mash, 200 pounds of grain or 2½ bushels. The hinged covers over the feed troughs are always closed until the hens mount the platform to swing them open. Each \$8.25 postpaid.



## "LONG BOY" FEEDER

The most feeder for the money.



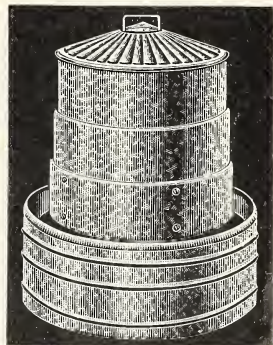
This type of feeder is becoming very popular. It affords the maximum of feeding space at low unit cost. Feeds from both sides. Galvanized wire grid of very rugged construction keeps fowls out and off. The 3-footer holds 1¼ bushels, the 6-footer 2½ bushels.

3-foot LONG BOY, postpaid	\$3.90
6-foot LONG BOY, postpaid	6.00

## NEW—THE DIAMOND G SILO MASH FEEDER

At last, a collapsible, round, Dry Mash Feeder. Built like a telescoping drinking cup. This feeder with a diameter of 21 inches has as much feeding capacity as a rectangular hopper of 45 inches long feeding from both sides. Can be set up in a jiffy, no fitting or matching of parts. Try a "Silo" for satisfaction.

No.	Capac.	Wt.	Ppd. Price
1Z	60 lbs.	16 lbs.	\$3.50
2Z	100 lbs.	22 lbs.	4.50



## THE STANDARD HEATED FOUNTAIN

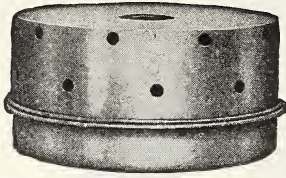
These new models are equipped with a chimney burner. Our own tests substantiate the proofs of lamp manufacturers that a chimney burner gives more satisfaction. Same big-burn 3-week oil capacity.

5-gal. oil capacity, postpaid	\$4.25
10-gal. oil capacity, postpaid	6.90

**LITTLE PUTMAN STOVE**

A very satisfactory small stove for fountains and home-made oat sprouters. Burns a month without attention. Wind-proof, fire-proof and fool-proof. Will heat a fountain of 2 gal. capacity satisfactorily. Full directions for making your own oat sprouter.

Price delivered to you \$1.95 each. Wicks for above, each 4c; doz., 20c, postpaid. Wick and holders, each 12c, postpaid.

**IMPROVED DROP BOTTOM FOUNTAINS**

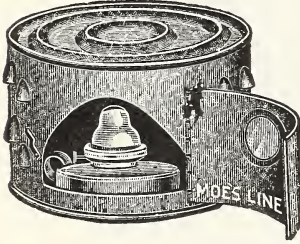
Combines the good qualities of the Flat Back and Drop Bottom Fountains. Very easy to clean and fill. Has hinged bottom which drops for filling. Nothing to get out of order. Can be hung on the wall out of the litter. Large drinking space around entire fountain.

No. E24, 2 gal., 4 lb.....\$1.80

No. E25, 4 gal., 5 lb.....\$2.45  
Postpaid.

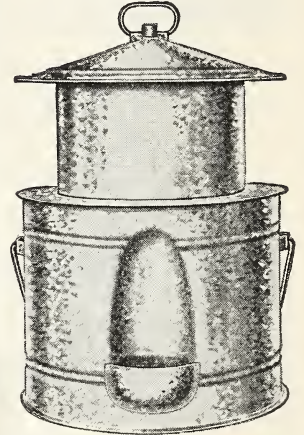
**FOUNTAIN AND BROODER HEATER**

Can be used with all styles of fountains and effectively prevents water from freezing. Makes an excellent heater for small brooders. Lamp fount holds sufficient oil to burn continuously for 7 days. Height 7 in., diameter, 11 in. No. 10. Price each, \$2.10, postpaid.

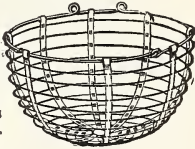
**STANDARD INSOFOUNT**

The Standard Insofont is big, thoroughly insulated and guaranteed water tight. It has a comfortable wooden handle and a new die drawn drinking cup with rounded dirt-free corners. This cup is by far the best, most attractive ever built into an insulated fountain.

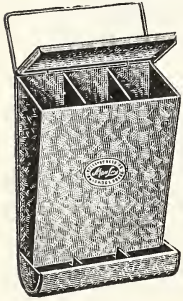
3 gal., postpaid---\$3.25  
5 gal. postpaid--- 3.60

**WIRE HENS' NESTS**

Provides a clean sanitary nest for the setting hen. Easily kept free from vermin. Can be fastened to walls with nails or screw-hooks.



No. 301. Dia. 14 in., each 30c; ppd. 35c; ppd. per doz., \$3.60.

**DIAMOND G. GRIT AND SHELL BOX**

Feeding of grit, Oyster Shell and Charcoal is now recognized as an essential part of the diet to keep fowls healthy and in prime condition. A waste saver and keeps feed in good condition. No. C-48. Price each postpaid, \$1.00.

**THE 3-GALLON HEATED FOUNTAIN**

Equipped with chimney burner requiring little attention. Tight, fire-proof base, full 3-gallon water fount. One drinking cup. Easily filled and operated without spilling water. Burns four days on one filling. Each \$2.50, postpaid.

**TOP-FILL CLEANABLE FOUNTAIN****WITH ROUND PANS**

Made of heavy galvanized steel, with double walls, which keeps the water cool in summer, and retards freezing in winter. Feeds automatically, no valves to get out of order. Fills from the top, thus avoiding the annoyance of spilling over while being filled. Thoroughly sanitary and as easily cleaned as an ordinary pail.

No.	Capacity	Postpaid Price Each
33	2 gals.	\$2.85
34	4 gals.	3.40

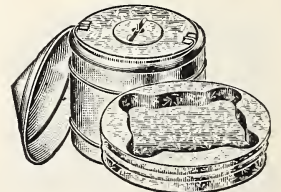
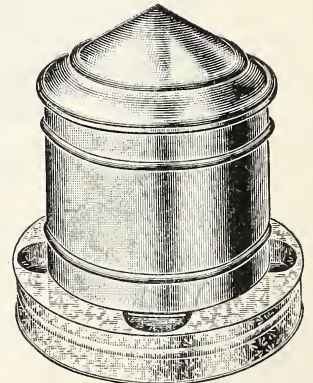
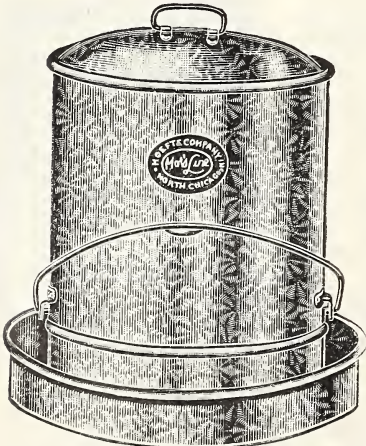
**REPLACEMENT PARTS FOR ALL TOP-FILL FOUNTAINS**

Size	Outside cover only	Inside tank and pan	Bottom Pan only
33	\$1.60	\$1.60	\$0.45
34	1.85	1.85	.45

**THE NEW MAKOMB CLEANABLE "INSOFont"**

The new Insofont will not spill, splash, overflow. It is highly resistant to freezing. It is easy to carry and handle. High cone top keeps the chicks off. A 4-inch easy-acting can top makes filling and cleaning extremely simple. The die-drawn bottom pan collects any dirt ready for throwing away when filling.

3-gal. actual capacity, \$3.85 postpaid. 5-gal. actual capacity, \$4.40 postpaid.



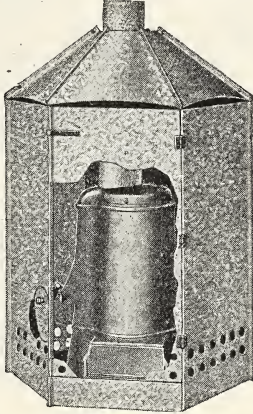
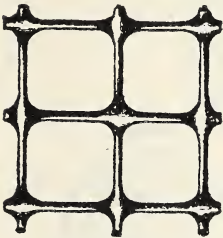
"Insofont" open

**LAYING HOUSE CIRCULATOR**

Don't expect to shell them out when the laying house is cold and damp. To get real production during the period of high egg prices, use our Laying House Heat Circulator and heat the whole house economically. It is an economical and useful addition to any standard coal brooder or drum type oil brooder. The circulator is made of heavy galvanized iron with iron base. Hexagonal shape approximately 30 in. diameter; height, 48 in. One section is hinged to make care of stove easy and convenient. A hand hole is provided for automatic control adjustment. The circulator is so built that a heavy current of air is forced around the stove and out into the house. The non-roosting top keeps the hens off and out. Base and 6 ins. of side wall closed tight to keep out litter. Each \$7.50. Shipped only by Express or Freight.

**SPECIAL REGULATOR** for Giant Coal Brooder Stove to be used with Circulator. Each, \$3.00 postpaid.

This shows the Laying House Circulator installed with a coal brooder stove. The circulator has been found exceedingly useful in heating garages, barns and other places where an economical method of making the heating source more effective is desired.

**HARDWARE CLOTH**

$\frac{1}{2} \times \frac{1}{2}$  Mesh

This has been found to be the most practical material for chick runways. For use as chick guards around brooder stoves it is unexcelled. We recommend 21, 24 and 27 foot lengths respectively for 42, 52 and 62 inch hovers. For lengths less than full 102  $\frac{1}{2}$  foot rolls the price is 20c per lineal foot.

No. 87, 102  $\frac{1}{2}$  lineal feet long, 23 inches wide,  $\frac{1}{2}$  in. mesh, 19 gauge wire, price roll, \$13.50. Wt., 68 lbs.

**EGG CASE FILLERS**

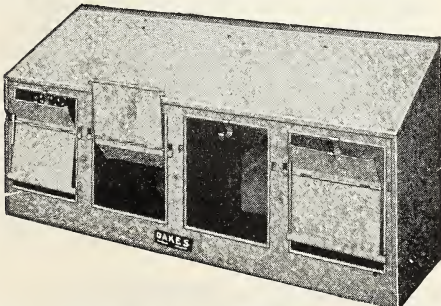
Govt. Standard pasteboard fillers for 30 doz. case. Complete 30c; postpaid 40c.

**SECOND HAND EGG CASE**

Regulation egg case. Strong, well built but light. All guaranteed in first class condition. Complete with fillers and top. Each 30c; F. O. B. Gt. Falls.

**TRAP NEST COMPLETE**

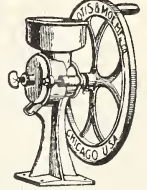
Made of light but durable galvanized iron. No cracks or crevices in which lice or mites can hide. Easy to clean or scald. Absolutely automatic. Hangs on wall Just pull nest out at bottom and dirt falls out.



No. C-57—Four compartment nest. Each complete, \$5.19. Weight 30 lb., can not be sent by mail. Write for prices in larger lots.

**DIAMOND G GRINDING MILLS**

These improved grinding mills are made for grinding all kinds of grain, dry bones, shells, root, bark, salt, etc. Adjustable by a thumb screw to grind coarse or fine. Just the thing for poultry and makes an excellent family mill. Hand driven. We can furnish larger sizes for belt drive same as cut. Write for prices.



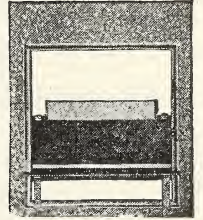
No. 221—Capacity  $\frac{1}{2}$  to 1 bu. per hr., \$5.25; wt., 22 lbs.

No. 222—Capacity  $\frac{3}{4}$  to 2  $\frac{1}{2}$  bu. per hr., \$8.50; wt., 40 lbs.

Shipped by freight or express only.

**MAKE EACH CHICKEN PAY FOR ITSELF  
CULL OUT THE NON-LAYERS**

This is easily accomplished by installing our single front trap nest. You can use this trap nest front on any orange box, small dry goods box, and etc. Very efficient but inexpensive.



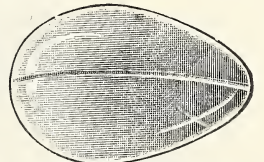
Price each 40c; postpaid, 45c. Three for \$1.15, postpaid; Six for \$2.25, postpaid; One doz., for \$4.25, postpaid.

**EGG SCALES POSTPAID 95c**

Be sure of your hatching eggs. Use only uniform heavy eggs. Receive more money on the market by selling eggs that have been graded for size and weight. Scale so constructed that eggs weighing from 18 to 26 oz., per doz can be weighed. People will pay more for eggs weighing 22 to 24 oz., per doz., than light weight or pullet eggs. Each 95c postpaid.

**CHINA NEST EGGS**

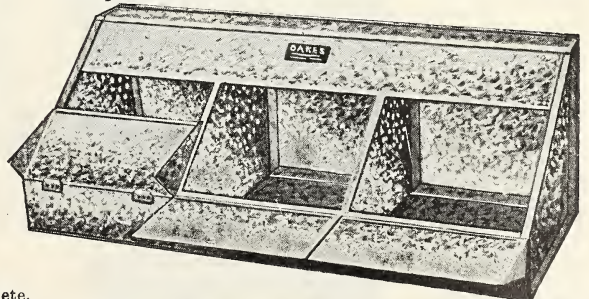
Made of white porcelain, natural in appearance, and uniform in size. Will not easily break. Per doz., 50c; postpaid, 60c.

**LICE REPELLING  
WHITE NEST EGGS**

Closely imitate a real egg in appearance, and contains a powerful disinfectant. Will aid greatly in keeping the nest and hen free from vermin. Soon pay for themselves in increased yield. Per doz., 50c; postpaid, 65c.

**SANITARY GALVANIZED STEEL  
HEN'S NESTS**

These metal nests are made in three compartments to rest either on a shelf or other support or hanging against the wall. They are convenient sanitary and vermin proof.



No. C-60—Three compartment nest, weight, 30 lb. \$3.55. Can be sent by express or freight only.

## DO THE COYOTES DISTURB YOUR FLOCK OF TURKEYS

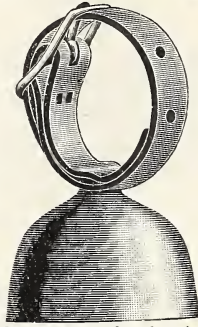
### If So Use Some of OUR TURKEY BELLS

It is discouraging to raise a fine flock of turkeys until they are large enough to eat in the grain field and then lose most of them through Hawks and Coyotes.

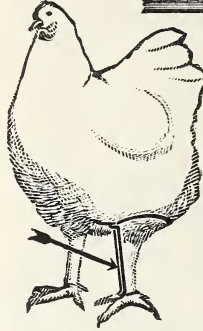
Place a few of these bells around the necks of some of them and your flock is protected from all animals and hawks.

**THE CHEAPEST PROTECTION THAT YOU CAN BUY FOR YOUR FLOCK OF TURKEYS.**

Made from the best grade of bell metal fitted with good leather strap for placing around neck. Each 25c; 2 for 40c; 6 for \$1.15; per dozen, \$2.20, postpaid.



## MOE'S HANDLED SCRAPER



Made of hard stiff sheet steel. Light in weight, yet strong and durable. Just the thing for keeping the dropping boards clean. No. 51 each 50c postpaid.

## THE "NO-SET" POULTRY GUARD

Will not injure the hen in any way and effectually prevents her from setting. Will usually break up the most stubborn case in two to three days.

Full directions furnished with each guard. No. 290, each, 15c; Two for 25c, postpaid.

## GLASS CLOTH

### TRANSMITS MORE ULTRA-VIOLET RAYS

Vegetables and baby chicks thrive amazingly under Glass Cloth. Cover hot beds, scratch sheds and brooder houses with this marvelous material now. Have vegetables and broilers earlier this spring—when prices are highest. GLASS CLOTH transmits more of the ultra-violet rays—the healthful, invigorating rays thrown off by the sun—than glass. Glass stops them. Put up in rolls, GLASS CLOTH is easier to use. Cheaper too! Use GLASS CLOTH also for enclosing porches, storm doors, windows, etc.

GLASS CLOTH PRICES—Single yard 50c; 3 yards \$1.25; 6 yards \$2.25; 10 yards \$3.50; 50 yards \$17.00; 100 yards \$32.00 postpaid.

### SPECIAL OFFER

15 yards Glass Cloth, postpaid your station for \$5.00.

### LIMBER GLASS

The new product manufactured by Turner Bros., the originators of Glass Cloth, to meet competition of cheap imitators. Of lighter grade than Glass Cloth. Per square yard, 35c postpaid. 15 sq. yds., \$3.90 postpaid.

## LANDSDOWNE AUTOMATIC TESTICLE REMOVER

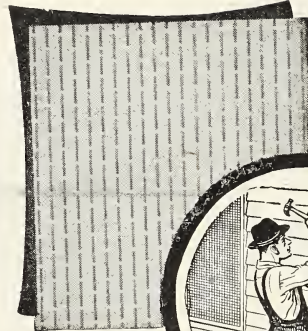
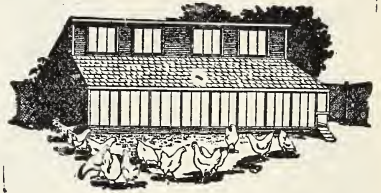
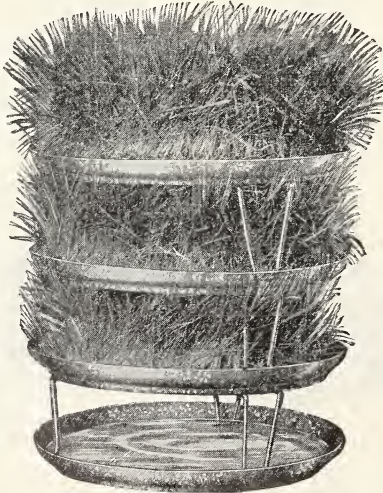


A great many people who now own a castrating set have trouble in having a large percentage of slips. This is absolutely overcome with the use of this remover. Recommended by the poultry expert for this state. An ideal remover for the beginner. Price each, \$1.25, postpaid.

## DIAMOND G OAT SPROUTER FOR \$1.46

A quick oat sprouter when properly used. Soak oats well before placing in sprouter and place sprouter in cellar near furnace or in heated room. Made in two sizes of four and eight trays. Made with solid bottom tray to catch drippings from other trays. Size 4 tray, 7 lb., Price \$1.46, Postpaid, \$1.60.

Size 8 Tray, 13 lb., Price \$2.73, postpaid, \$2.85.



*Protect Chicks & Plants with*

## CEL-O-GLASS

Cel-O-Glass is a high grade, low priced substitute for glass. It is unaffected by rain, hail, snow, sun or wind and can be bent or cut to any desired shape and is practically indestructible. Cel-O-Glass is radically different from ordinary glass, yet in practical use answers all demands and offers very decided advantages. Cel-O-Glass can be used on greenhouses, hot beds, cold frames, poultry houses, scratch pens, brooder houses and all out buildings. It is no longer necessary to worry as breakages are entirely eliminated. Cel-O-Glass is the cheapest in the end. Cel-O-Glass comes in rolls 3 feet wide only and in any length up to 100 lineal feet (300 square feet).

### CEL-O-GLASS PRICE

Width 36 in., per running foot, 45c, postpaid.  
Width 28 in., per running foot, 35c, postpaid.

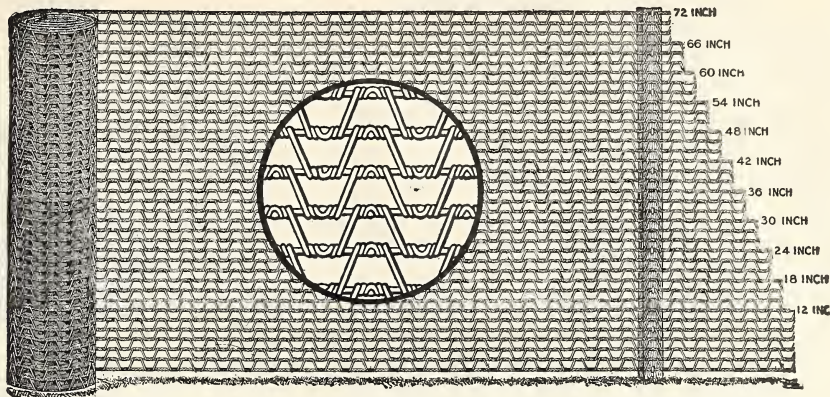
## POULTRY GALVANIZED NETTING

Galvanized before weaving. Will stand on edge without wobbling. Wires can be stretched to a high tension which makes fence rigid. We recommend this type of netting. Made in one and two inch mesh.

No. A, B, C, D, H, I, J, can be shipped by parcel post. Others by express or freight. We do not cut rolls.

Price of two inch mesh F. O. B. Gt. Falls, Montana.

No.	Width	Length of roll	Weight	Price per roll
A	12 in.	150 ft.	13 lb.	\$1.95
B	18 in.	150 ft.	18 lb.	2.75
C	24 in.	150 ft.	23 lb.	3.40
D	36 in.	150 ft.	33 lb.	4.35
E	48 in.	150 ft.	43 lb.	6.00
F	60 in.	150 ft.	53 lb.	7.20
G	72 in.	150 ft.	62 lb.	8.50



No.	Width	Length of roll	Weight	Price per roll
H	12 in.	150 ft.	15 lb.	\$3.70
I	18 in.	150 ft.	22 lb.	5.25
J	24 in.	150 ft.	29 lb.	6.35
K	36 in.	150 ft.	42 lb.	8.65
L	48 in.	150 ft.	55 lb.	11.65
M	60 in.	150 ft.	68 lb.	14.25

## POULTRY NETTING STAPLES

Galvanized No. 14 wire 3-4 in. size. Per pound 20c postpaid. Two pounds 35c, postpaid.

## GRAHAM & ROSS ALUMINUM LEG BANDS

### DOUBLE CLINCH ADJUSTABLE—

Made of sheet aluminum, with large raised numbers easy to read. Adjustable to any size fowl. Packed in cartons, 12, 25, 50 and 100. Numbered 1 to 12; 1 to 25; 1 to 50; and 1 to 100.



12 bands	Postpaid prices
25 bands	15c
50 bands	25c
100 bands	45c
	75c



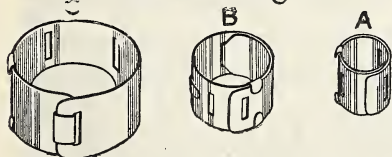
## VICTOR LEG BANDS

One of the best bands made. Once placed on the foot, it is there to stay. Made of heavy aluminum, with numbers enclosed in sealed celluloid case.

Prices postpaid your station.

1-12	60c
1-25	1.20
1-50	2.20
1-100	4.00

## THE O. K. CHICK MARKING BAND



Made of aluminum, adjustable to three sizes. As the chicks grow, you do not have the trouble of changing bands and hunting up corresponding numbers. Just let band out at next slot, and there is no possibility of getting the wrong number. Very light but durable. No chance to lose it. Price per dozen, 15c; postpaid 17c; per hundred 75c; postpaid 79c.

## COLORLED LEADER ADJUSTABLE LEG BANDS



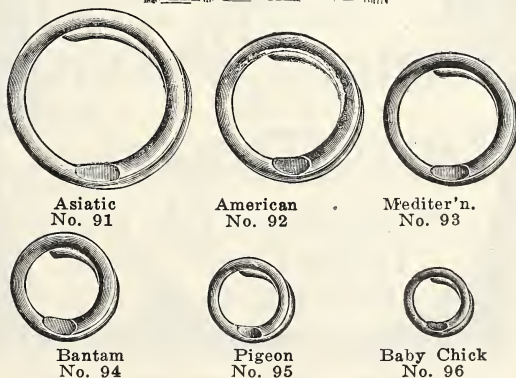
A general purpose band that provides quick and accurate identification. It will fit anything from a bantam to a tom turkey. Light in weight but very durable. Cannot come off.

Postpaid prices: 25c dozen; 50c per 25; 50 for 85c; 100 for \$1.50. Furnished in Red, Blue, Green and Pink.

## DIAMOND G CELLULOID COLORED LEG BANDS

SIX COLORS

SIX SIZES



Nothing but the finest banding is used in the manufacture of our leg bands. Made with extra full one-half lap, which makes them stronger and stay on better than the average band.

Furnished in Cerise, red, blue, ruby, yellow, green. Prices postpaid, your station.

No. 91, 92, 93, and 94, 12, 15c; 25, 30c; 50, 50c; 100, 75c.

Sizes No. 95, and 96, 12, 10c; 25, 20c; 50, 35c; 100, 50c.

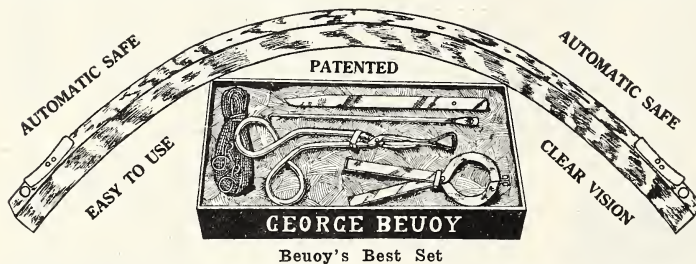
**SAFE EDGE KILLING KNIFE**FRENCH SAFE-EDGE KILLING KNIFE  
PILLING - PHILA.

Exactly same as French Killer except cut on one side only. Prepaid on receipt of 50c.

**PILLING ANGULAR KILLING KNIFE**P ANGULAR POULTRY KILLER  
PILLING - PHILA.

By simply turning the wrist the jugular vein and spinal cord are cut, thereby bleeding the fowl, allowing the feathers to be removed without using water. Each 60c postpaid.

We are pleased to offer our many customers two new Caponizing sets manufactured by one of the foremost experts in this country. As it is the policy of our company to prove to our satisfaction any new article before offering it to our customers, these sets were tried out and actual tests were made by our expert. His results were as follows: One of the simplest and easiest to operate sets that he has ever used. Nothing but the highest quality material is used and complete instructions are furnished with each set.



Beuoy's Best Set

**SPOON SET**

For those who prefer using a spoon in the operation, we offer this complete set, consisting of spreader, knife, spoon remover or twisting scoop and complete directions for \$2.75, postpaid.

**BEUOY'S BEST SET**

Without doubt the most complete set ever offered at this low price consists of automatic spreader, razor blade knife prod hook and automatic testicle remover. For those who have experienced difficulty in the large percentage of slips we recommend this set. Furnished with complete directions and sent postpaid for \$5.00.

**CAPON-BOW**

A new invention that will prove of great help. Made of hardwood and is flexible so that a uniform tension is had at all times. Takes but an instant to fasten chicken and holds the chicken firmly during the operation. Postpaid \$1.25.

# Remedies and Tonics

State Experiment stations recommend the use of PoulTobac or tobacco powder for treating round worms. Finely pulverized to give most satisfactory results. Guaranteed to rid your hens of all round worms. Easy to use. Just mix 2 pounds of PoulTobac in every 100 lb. of feed or mash. Feed for 3 weeks discontinue for 3 weeks and then feed for 3 weeks again. A money maker for each poultry raiser. Used as dust powder for plant lice. Per 2 lb., package 50c; postpaid 55c; Per 10 lb. bag, \$1.50 postpaid.

**KEEP YOUR EGG LAYERS OFF THE SICK LIST**

Now successfully used by leading breeders and poultry authorities. Recommended by our State Agriculture College at Bozeman. B-K is ten times more effective than undiluted carbolic acid in destruction of disease germs. Prepaid prices: 4 oz. bottle 40c; 10 oz. bottle 70c; 1 qt., \$1.35, prepaid. By express or freight: 1 gal., \$3.25; 5 gal. jugs, \$12.50.

**ASK FOR THESE VALUABLE SPECIAL FREE BULLETINS; THEY WILL HELP YOU TO STOP LOSSES AND MAKE PROFITS**

**LIVESTOCK AND POULTRY DISEASES**

**Livestock Diseases—**

Bulletin 15 "Cattle—Selection, Breeding and Sanitation."

Bulletin 756 "The Easy Way to Remove Retained Afterbirth."

**Poultry Diseases—**

Bulletin 213 "Poultry Health and Profits."

Bulletin 995 "Preventing Disease in Poultry Feeding and Dressing Plants."

**Hogs and Little Pigs—**

Bulletin 10 "Practical Disease Prevention—How to sort, wash and disinfect sows and the herd quickly, without handling. How to exterminate worms."

**DAIRY STERILIZING**

**General Information—**

Bulletin 320 "Better Food and Dairy Products."

**Bottles—**

Bulletin 116 "Will She Boast of the Purity of Your Milk?"

**Cans—**

Bulletin 928 "Sterilize Your Milk Utensils."

**Milking Machines—**

Bulletin 124 "Milking Machines—What Happens in Your Barn."

**Separator—**

Bulletin 112 "Separator Cleaning Simplified."



**STERILAC—A Disinfectant and Germicide**



**STERILAC**—Is a thoroughly reliable disinfectant, deodorant and germicide, which destroys disease-producing germs and enables the poultry raiser to keep his flock in perfect physical condition.

It is in powder form, easy to handle, and does not lose its strength with age. It is easily dissolved in water, makes a powerful germ-killer, and when used according to directions is non-poisonous, safe, efficient and economical. One ounce will make 30 gallons of standard solution, and it is forty-five times stronger than carbolic acid and much safer.

Size, 2 ounce bottle, \$1.00, postpaid.

**KEEP YOUR CHICKENS HEALTHY**



**PREVENTS CONTAGIOUS POULTRY DISEASES**

Stop losses. Prevent spread of dread contagious diseases that wipe out entire flocks. Easy and cheap with B-K. Feed it in the drinking water.

**B-K IS RELIABLE—COSTS LITTLE TO USE**

B-K is a powerful disinfectant that kills germs yet is not harmful to animal or chick life. B-K costs but a few cents to use per day. It insures healthy chicks—early maturing pullets—eggs when they are highest—mature birds. Prominent poultry raisers all over the country are using and recommending B-K.

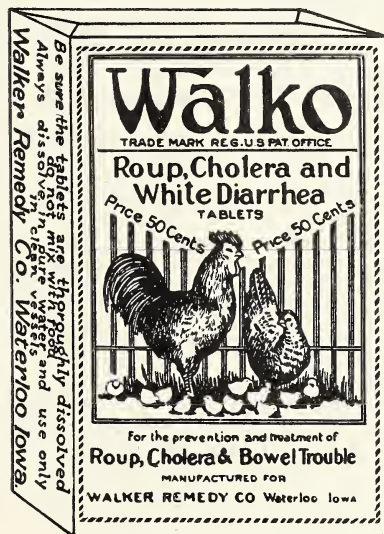
We sell it in convenient sizes. Ask for free bulletins. Prepaid prices, 10 oz. bottle 70c; 1 qt. bottle, \$1.35.

**CONKEY'S REMEDIES**

Roup Remedy (powdered)	
Small	25c
Large	60c
Roup Remedy Pills	
Small	30c
Large	60c
Limberneck Remedy	60c
Cholera Remedy	30c

**PRATT'S REMEDIES**

Pratts Roup Tablets	
Small	35c
Large	65c
Pratts Bronchitis Large Size	60c
Pratts Condition Tablets	
For Hens off feed	70c
Pratts White Diarrhea	
Small	35c
Large, 2½ times as many	70c
Pratts Bag Ointment (for the relief of Caked Bag and bunches in bag)—	
10 oz. can	65c
Pratts Worm Powder Large	60c



Small size 55c, postpaid. Large size \$1.10 postpaid.

**FOR HEALTH AND EGGS, PRATT'S POULTRY REGULATOR**

has no equal. It is the world's original poultry regulator and has been the standard for over 50 years. Not a dope or stimulant but a natural tonic supplying numerous health necessities required by heavy laying hens and breeding stock. Tones up the system, regulates bowels, aids digestion, sharpens appetite, wards off disease and increases vitality. Added to any mash it makes more eggs. Use it the year round and make bigger profits. Guaranteed to give satisfaction or your money back. Postpaid prices: 1½ lb., 35c; 12 lbs., \$1.95; 25 lbs., \$3.65.



**Dr. Hess POULTRY TABLETS**

(Formerly Roup Tablets)

WHILE there is no absolute cure for roup, Dr. Hess Poultry Tablets are of high value in treating locally the swellings incident to the disease.

The Tablets are used as a local antiseptic and to medicate the drinking water. Thus used, they aid in preventing spread of the disease. Once the Tablets are in solution, they remain so permanently. The water is evenly medicated and requires no further stirring.



**POSTPAID PRICES**—100 tablets 50c; 225 tablets, \$1.00.

## The Lee Way

Here are the Famous Geo. H. Lee Company Remedies and Preparations for Poultry and Swine

# GERMOZONE

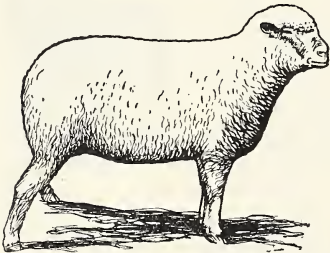
## Saved This Bird

### MARVELOUS FOR BABY CHICKS

Most often when a chicken is sick, the trouble is a crop or bowel infection. Disease germs are many in food, water and soil, and every break or irritation of the mucous membrane lining in mouth, throat, crop, stomach, gizzard or intestines offers these germs a chance to enter the system. Germozone destroys germs and helps to heal the affected membrane lining. When used regularly three times a week in the drink, and with proper feed and housing, there is rarely any sickness in the flock.

Keeps the crop pure and sweet and guards unceasingly against intestinal infection, digestive disorders, simple diarrheas and bowel trouble. Used and endorsed by many of the largest poultry farms and hatcheries.

Easy to use; inexpensive—a teaspoonful to a quart of drinking water. Especially valuable in case of sour crop, limber neck, eating mouldy matter, colds, canker, swelled head, etc. 12 oz., 75c; qt., \$1.50; half gal., \$2.50; gal., \$4.50.



Limberneck Bird owned by H. Reim, Ashland, Nebr. Lower picture shows it three days later, after treatment with Germozone.



### LEE'S POULTRY SYRINGE

Invaluable for individual treatment of sick chickens, washing out crop, giving doses oil, feeding milk or thin gruel, washing out sores and cuts in animals. Accurate. Can also be used as infant or vaginal syringe. Price, 35c; 45c postpaid.



Dosing Syringe

### SCOURS IN SHEEP

Germozone is marvelous for scours in sheep, caused usually by moldy alfalfa or beet tops. Many growers have found that Germozone clears up the worst cases of scours in from three to four days.

### FOR NECRO IN HOGS

Germozone is unquestionably the most effective treatment for necro in hogs. It is both a preventive and remedy. Half gal. bottle, \$2.50; gal., \$4.50.

### EGG-O-LATUM

#### FOR PRESERVING EGGS

Rub a little Egg-o-latium on your hands. Then roll and rub the eggs in your hands. Lay them away in an egg crate in a dry, cool place. Turn the crate upside down occasionally, and they will keep perfectly fresh for one year.

Egg-o-latium is colorless, odorless, tasteless and non-poisonous. It protects eggs from air, odors, germs and decay.

Eggs coated with Egg-o-latium can be boiled, fried, poached or whipped, same as fresh eggs. Avoid dampness.

Price per jar, 50c. Sufficient for 50 doz. eggs. Large size, \$1.00, for 200 doz. eggs.

### LEE'S DRY RUB

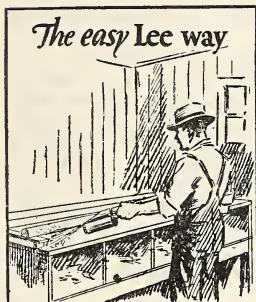
A Cold Weather Substitute for Liquid Dipping

Invaluable for delousing hogs and other animals in winter. Simply sprinkle freely on the animals and in the bedding. Poultrymen find it excellent to put in hens' dust bath. Much cheaper than ordinary louse powder. 3 lb. can 75c, postpaid.



## The Lee Way

### Guaranteed to Satisfy You



*The easy Lee way*

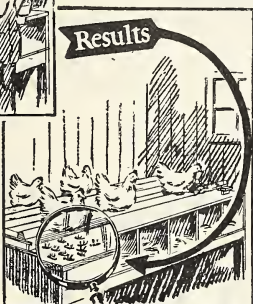
#### LEE'S LIQUID LICE KILLER

#### THE GREAT LABOR SAVER

Just paint or spray on the roosts and dropping boards. Kills the mites in the cracks and crevices, and the fumes get the body lice on the fowls.

Your money back if you are not satisfied. Qt. can, 65c; half gal., \$1.00; gal., \$1.60, postpaid.

**Results**



**QUICKLY  
GETS  
BOTH  
LICE AND  
MITES**



#### EGG-O-HATCH

#### THIS IS A WONDERFUL HATCHING HELP

It is a dry powder. When added to water it makes a fluid rich in oxygen and with a strong affinity for carbon dioxide. It also has the property of rotting or making more porous and brittle the shell of the egg.

When sprinkled or sprayed on eggs undergoing incubation, three times only, it greatly strengthens the chick by directly supplying it with oxygen and by directly absorbing the carbon dioxide given off. At the same time it is weakening the shell.

The result is that it is easier for the chicks to break out of the shell. A greater number hatch and all are stronger and easier to raise. Per package, enough for 700 eggs, 50c postpaid.

## Goes Directly to the Worms

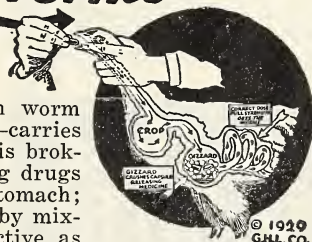
### The GIZZARD CAPSULE

TRADE MARK AND PATENTS PENDING

This insoluble capsule, a triple combination worm medicine—for Round, Tape and Pin worms—carries clear through to the gizzard, where the capsule is broken up. This method prevents absorption of strong drugs by the mucous membrane of throat, crop and stomach; prevents diluting and weakening of the medicine by mixing with the crop contents. Five times as effective as where worm remedies are given in food or drink.

The GIZZARD CAPSULE, easily administered by one person and helper at the rate of 400 per hour, insures a full, exact undiluted dose directly from the gizzard into the intestines upon the worms. It does not sicken normal birds; improves low egg production; gets rid of worms. Very inexpensive.

Adult size for chickens or turkeys half grown or larger: 50-capsule pkg. \$1.00; 100 pkg., \$1.75; 500 pkg., \$7.00; 1000 pkg. \$12.00. Chick size for birds under half grown.



© 1929  
G.M.L. CO.



**When sneezing, wheezing; roup; flu, bronchitis appears —**



## Treat the Whole Flock

Diseases of the breathing passages spread rapidly. One sick bird is a warning others very likely are infected and will come down unless ALL are correctly and promptly treated. Treat the flock with Vapo-Spray.



## Vapo-Spray

The whole flock is treated as one, and at small expense, with the latest scientific treatment. Simply spray in the air of the hen-house at night. All the birds breathe the vapor of these healing oils. It gets into the nasal passages, throat, windpipe, lungs. A sensible and very effective remedy—recommended by many prominent breeders, agricultural colleges and experiment stations.

A gallon (\$2.00) is a three days' treatment for 200 birds (usually sufficient). ½ gal., \$1.25. In very severe cases of 'Flu', the additional use of Flu-Koff Emulsion is advisable. It reduces temperature and overcomes inflammation. Given in the moistened feed. Quart (\$2.00) treats 200 birds three days. Gal., \$6.50.

## PROTECTS YOUR STOCK

We know that Lee's Dip is the highest grade and can recommend it to satisfy you or your money back. Highly concentrated—one gallon makes from 50 to 100 gallons of solution for disinfecting barns, poultry houses, etc., or for dipping animals or for spraying or washing them. Qt. cans 75c; half gal., \$1.25; gal., \$2.00; 5 gal., \$8.00. 5 gal. size must be shipped by freight or express, all other sizes postpaid.

# Dr. Hess STOCK TONIC

THIS PRODUCT has been serving the dairy interests of the country for upwards of 35 years.

A summary of many comparative tests, covering three whole years, shows that cows receiving Dr. Hess Stock Tonic produce, on the average, 54.9% more profit than cows not getting the Tonic.

The Tonic has been recently improved in keeping with latest scientific discoveries and feeding practices. All the minerals proved necessary to the heavy producing dairy cow have been added. This conditioner and mineral supplement whets the appetite, sustains the milk flow well through the lactation period and is a valuable aid in calving.

Put up in 100-lb. iron drums and convenient size cartons.

**POSTPAID PRICES**—5 lbs., 85c; 15 lbs., \$2.35; 25 lbs., \$3.60; by freight, 100 lbs., \$12.00.



## For Worms in Poultry

DR. HESS Poultry Ver-mi-trol is a flock treatment. No individual handling of birds is necessary. It is simply given with the feed in two 10-day courses, three weeks apart, with Dr. Hess Poultry Pan-a-min fed regularly.

It is not drastic, does not throw hens or pullets off production and does not interfere with growth and development of young birds. It is palatable, all birds eat it readily.

As a preventive measure, to avoid worm infestation, a twice-a-year flock treatment, early summer and late fall, is strongly recommended.



# Dr. Hess POULTRY VER-MI-TROL

4 lb. pkg. ----- \$1.60, postpaid  
10 lb. pkg. ----- \$3.35 postpaid

This preparation was formerly called Dr. Hess Worm Powder.

# Dr. Hess CHICK TABLETS



(Formerly White Diarrhea Tablets)

MOST diarrhea conditions in chicks, often mistaken for Bacillary White Diarrhea, are the result of improper feeding or brooding, and can be corrected by Dr. Hess Chick Tablets. These Tablets are a bowel astringent to be given in drinking water.

Once the Tablets are in solution they remain so indefinitely. No need for further stirring. Solution is thoroughly medicated and all good till used.

**POSTPAID PRICES**—100 tablets, 50c; 225 tablets, \$1.00.

# Dr. Hess Poultry PAN-A-MIN

PAN-A-MIN has been known to poultry raisers for more than 30 years as Dr. Hess Poultry Pan-a-ce-a.

It is now a greatly improved product. More minerals have been added. It contains new medicinal ingredients, and other active ingredients in different proportions. The improved product has been given a new name. Dr. Hess Poultry Pan-a-min means Pan-a-ce-a plus.

Pan-a-min is of high value to moulting hens, in egg production, in reducing chick mortality, in bone and feather growth and in maintaining health.

It does not take the place of feed and no feed can take the place of Pan-a-min. The cost is less than a penny per hen per month.

In 100-lb. iron drums and convenient size carton packages.

**POSTPAID PRICES**—3 lbs., 65c; 7 lbs., \$1.30; 15 lbs., \$2.35; 25 lbs., \$3.60.



Augusta, Montana.

We have just finished feeding the last ton of DIAMOND G SPECIAL EGG MASH with YEAST and sure do like it. Please ship us another thousand pounds by return freight. Our pullets have not done as well as last year but they were much later and the house was too cold. I know that we would not have gotten any eggs if we had not fed your mash. Yours for continued success,

Mrs. James Moll.



## We Sell and Recommend Burrell-Dugger Guaranteed Poultry Remedies



### DON SUNG Makes Hens Lay!

**We Guarantee you--More Eggs or No Pay**  
"Hens won't lay in Fall and Winter," used to be accepted as a fact. But anyone who has tried Don Sung knows that hens will lay right through the zero spells of winter, and all other cold or wet seasons.

Some may doubt this—and you may be one of them. But if you don't at least try Don Sung, you are missing some sure, easy profits from extra eggs.



#### A Mineral Compound that Scientifically Helps Nature

Don Sung doesn't force or hurt the hen in any way. It is a balanced mineral conditioner. It improves the hen's health, tones up her egg-laying organs, and makes her stronger and more productive. It helps supply, during Fall and Winter, those mineral elements, lacking in the feed at that time.

#### Costs Nothing to Try—Give

Don Sung to 15 hens for 30 days. If it doesn't show you a big increase in eggs, if it doesn't pay for itself and a good profit, your money will be promptly refunded. Prices: Trial size, 50c; Large size, \$1, holds 3 times the 50c size; SPECIAL SIZE (6 times the \$1 size)—\$5.

## To Kill Chicken Lice!

The U. S. Dept. of Agriculture says, "Nothing is as satisfactory as Sodium Fluoride. It kills both old and young lice, including the young which hatch from the eggs present on the fowl at time of treatment." Talcimized Sodium Fluoride is the form for poultrymen to use. Here it is, Ready to Use.

Here is T. S. F., specially made for poultry. It is less irritating, and is so light and fluffy that it penetrates the plumage. It is in a handy sifter-top can that keeps it protected. Carries the Government's directions for use by the "dusting," "dip" and "pinch" method.

**Prices of T. S. F. Delivered**  
Small Size (enough for 40 chickens) ..... 40c

Large Size (Twice as much) ..... 70c

Special Size (Five times the large size) ..... \$2.65

**TALCIMIZED  
SODIUM FLUORIDE**  
(Called T.S.F.)

(All these prices include packing and postage.)



### Stops Chicks Dying

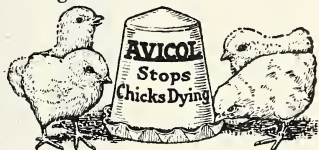
**The Wonder Remedy for  
WHITE DIARRHOEA or  
Cholera in chicks, and  
Black-Head in Turkeys**

### Does work in 48 Hours

White Diarrhoea kills half of nearly every hatch of chicks. The strange thing is that so many people think this loss can't be stopped. But it can be stopped, without extra work, without troublesome dosing, and at almost no cost. For years, thousands have saved their sick chicks and raised nearly every chick in every hatch, by keeping Avicol in the drinking water.

Avicol is a bowel antiseptic. It makes chickens healthy and keeps them healthy. Costs less than a cent a day for an ordinary flock. Guaranteed.

Price 50c; Large Size (Almost 3 times as much) \$1.



## Group-Over

### "THE OVER-NIGHT ROUP REMEDY"

**A New Prompt and Positive Guaranteed Treatment for Roup, Canker and Colds in Poultry**

Roup works fast. It usually begins with a cold. After that, the disease progresses rapidly. It is very contagious and can soon kill every chicken you own. Roup is one of the most serious of poultry diseases.

**Keep Group-Over on hand and at the first symptoms of a cold in your flock, give it to every affected bird.** It clears the air passages and brings relief with magic quickness. Easily given. Comes in a liquid form and a few drops does the work. Fully guaranteed.

Price 50c; Large Size \$1 (Three times 50c size)

Skaint for prevention of scaly legs. Tube 30c.

**Scientifically made in the Laboratories of the Burrell-Dugger Company**

## LICE KILLERS

It Sticks Where Others Fall Off. Kills Head Lice as Well as Body Lice

### REVENGE KILLER

We are introducing a new louse killer called REVENGE. This is a combination of powder and liquid. In applying a plain powder, you will find that you kill the lice, that is on the chicken at time of treatment, but not the EGGS. Revenge stays on about a week and not only kills the lice, but also the eggs. Easy to apply, either direct or by mixing in the dust bath. Full directions on each can. Before stocking this article, we tried it out on various flocks and are satisfied that it is the best yet. The cheapest louse killer we have yet found. 1½ pounds 65c; 3 pounds, \$1.00. Postpaid.



BEFORE



AFTER

### LICENE

For killing body lice on chickens. If LICENE does not prove an effective remedy against chicken lice or does not clean scaly legs on your chickens, or if applied on sitting hens and does not prevent head lice on chickens—YOU ARE THE JUDGE—we will refund your money, if notified within 30 days after purchase of same.

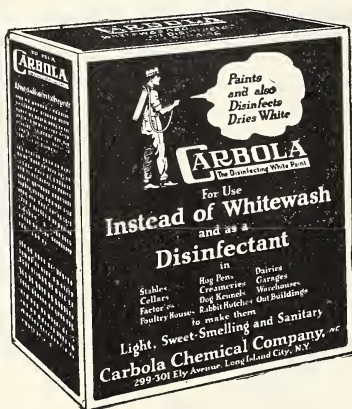
It is applied but TWICE A YEAR, but many of our patrons report that they have found one application a year sufficient. Licene is not only cheaper than louse powders and liquid lice killers, but is also more conveniently handled and more easily applied.

Full directions with each tube.

Price 60 cents per tube, postpaid, 65c.

### CARBOLA

Disinfects and White Washes at the same time. Easy to mix and apply. Will not clog the sprayer. Will not peel off. Dries white. Will cover any kind of surface. Has no disagreeable odor. Full directions on package. Trial pkg. 35c; postpaid 45c; 5 lb., pkg. (5-gal) 75c; postpaid, 85c; ten pound pkg. (10-gal), \$1.50; postpaid \$1.65.



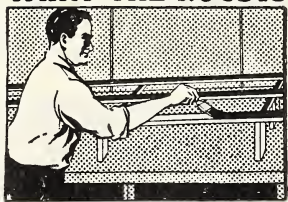
### DIAMOND G HOG OIL

As the name implies, made especially for treating hogs, preventing skin diseases and lice. One treatment every 3 months is advisable. Easily applied. Per gal., 60c; postpaid 70c.

### DISCOVERED—A NEW CONTROL FOR POULTRY LICE

De-louse entire flock by painting the roosts with Black Leaf 40. When chickens perch upon roosts that have been "painted" with Black Leaf 40, fumes are slowly released and penetrate the feathers, killing the body-lice—no interference with egg production nor any discomfort to the birds. Full directions furnished with each can. Many of our customers who have tried this new method are more than pleased with the results.

### PAINT THE ROOSTS



### WITH BLACK LEAF 40

Prices:

	F. O. B.	Postpaid
2 lb. tin (treats 385 to 480 running feet of roost)	\$3.25	\$3.35
½ lb. tin (treats 90 to 120 running feet of roost)	1.25	1.35
1 ounce bottle (treats 12 to 15 running feet of roost)	.35	.45

## Dr. Hess INSTANT LOUSE KILLER

KILLS lice on stock and poultry. Easily applied by putting in dust bath. Hens into the feathers where the lice are. It kills lice on contact. It is also applied directly to the fowl if badly infested.

Kills lice and bugs on cucumber, squash and melon vines—slugs on rose bushes.

It is non-poisonous, so may be used on edible plants with entire safety. Comes in handy sifting-top cans.



POSTPAID PRICES—1 lb., 35c; 2½ lbs., 65c.

### IOWA VERMIN-PROOF ROOST

We absolutely guarantee this roost to kill all the lice and mites that bother your poultry, when roosts are properly installed. Hundreds of our customers who have purchased these roosts are more than satisfied and would not part with them if they could not be replaced. Easy to install as roost comes complete with cross bars and bolts. Full directions furnished with each set. In measuring amount of roost required, allow 8 inches for each hen. 100 hens would require 67 running feet. Price per foot, 28c. This includes cross bars FREE. Write for full description.

### SULPHUR CANDLE

An easy, yet economical way to fumigate any room after sickness or disease. Contains no wax, comes prepared in tin can with six wicks. Simply light the wicks and close all doors and windows. Use from four to five candles per thousand and cubic feet.



Large size, containing 1 lb., 40c each, postpaid.

**We Sell B-K**  
For 145 Farm Uses

5641

No home should be without a bottle of B. K., the safe, powerful disinfectant. Ten times stronger than undiluted carbolic acid in destruction of disease germs but safe. Ask for the free bulletins on the use of B-K. 4 oz., 40c; 10 oz., 70c; 1 qt., \$1.35 postpaid; 1 gal., \$3.25; 5 gal., \$12.50 by freight or express.

# Dr. Hess FLY CHASER



*The Fly Chaser that has the odor of the pines*

AS A RESULT of some 300 experiments, the U. S. Department of Agriculture found the pine odor principle to be superior to all others in repelling flies.

Dr. Hess Fly Chaser is a highly refined product, almost colorless, developed through fifteen years of experimentation. It is more effective and keeps flies away for a longer time than any other.

In addition to protecting cows and horses from flies, it is also an excellent disinfectant. It kills disease germs, cleanses the skin, disinfects the hair and gives a pleasant odor to barns and stables.

It is not sticky or gummy, does not blister, does not taint milk or stain the hair.

1/2 gal.	-----	\$1.00
1 gal.	-----	1.75
5 gal.	-----	8.00



## STOCKAID

A new animal spray, a 2 in 1 combination. It kills and repels tormenting insects. Quickly and easily applied. It has a pleasant odor and will not stain. Manufactured by The Rex Company, the manufacturers of the famous FLY TOX. Per gal., \$1.90 postpaid.



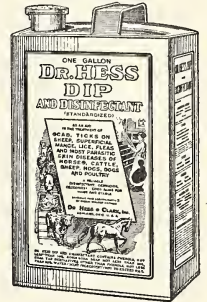
"I Need T. S. F."

For description of T. S. F. see page 21.

# Dr. Hess DIP and DISINFECTANT

A DIP that makes a perfect, milk-white emulsion—never any streaks or settlings. Remains in emulsion indefinitely. It is a standardized product with an established carbolic acid coefficient; always uniform in strength, no matter where purchased.

Because of its strength, its uniformity, its perfect emulsifying qualities, with its germ and insect killing powers, it is a most inexpensive dip to use. Valuable about barns and stables—kills hog lice and other parasites and keeps down foul odors.



1 qt.	-----	\$0.75
1/2 gal.	-----	1.25
1 gal.	-----	2.25
5 gals.	-----	9.00

Augusta, Mont., Feb. 3, 1930.

Graham & Ross,  
Great Falls, Mont.

Gentlemen:

Will you please ship me about one ton of Diamond G Egg Mash. Our hens have not laid an egg since we quit feeding it. We always got lots of eggs when feeding Diamond G. Ship same to Bickel. We enjoy your talks over the radio and we are always there to tune in. I am inclosing my idea of your Diamond G Egg Mash in verse.

Says the little brown hen  
To me one day,  
"I suppose you wonder  
Why I don't lay.

I rustle and I scratch  
And I cackle all day  
Do my very best  
But just can't lay.

You close me in an eight by ten  
And expect me to lay like any other hen,  
No straw for a scratch, no window to give light  
And not a darned thing to keep off the mite.

My home is damp and stuffy  
And lacking of fresh air;  
If you build one like you should do  
You would have eggs to spare.

You think because you feed me  
Plenty of oats and wheat  
I should lay eggs a-plenty  
And have lots of time to sleep.

You fill me with cold water  
No matter what I say,  
And keep me in the dark  
And then expect me to lay.

You used to feed me something  
That tasted just like more  
And if you give me that again  
I will lay eggs by the score.

The name I don't remember,  
It looked some like wood ash—  
By gosh, I think they called it  
DIAMOND G EGG MASH.

Yours truly,  
F. M. Hammond.  
Augusta, Montana.

# Poultry Feeds

MONTANA MADE FEEDS FOR MONTANA NEEDS

There are three great essentials to success in the poultry business, STOCK, CARE, FEED. We can supply good stock, can not give them the care but we can and are supplying THE BEST IN FEED. PRICES on all poultry feed subject to change. FULL value sent for remittance received.

FREE FEED SAMPLES MAILED ON REQUEST

## CERETANA BUTTERMILK STARTING MASH

is very low in fibre. The protein and carbohydrate content are from sources which supplies growth that must be rapid and constant. Chicks fed the "Ceretana Way" attain maximum development of the frame—structure, without which the birds cannot mature into strong, vigorous and profitable layers.

Ceretana Buttermilk Starting Mash is made with Cod Liver Oil Meal.

Feed when chicks are 48 to 60 hours old. At first it is well to sprinkle a little Ceretana on paper and attract birds to the feed. Later feed the mash (always dry) in low boxes, troughs or feeders, and keep before the chicks at all times. Ask for FREE feeding circular.



## CERETANA BABY CHICK SCRATCH

Ceretana Baby Chick Scratch contains steel cut yellow corn grits, fine cut oat meal, cracked milling wheat, cut peas, cracked milo maize, and millet seeds. Only choice quality grains used—fresh, sweet and low in moisture—uniformly milled, twice re-cleaned and carefully blended in the proper proportion to provide your chicks with maximum growth and the development of the digestive organs. Free sample on request. We invite your comparison of Ceretana Baby Chick Scratch with any other chick scratch on the market. Ask for free circular on feeding.



## CERETANA BUTTERMILK GROWING MASH



Ceretana Buttermilk Growing Mash is compounded to grow and condition the birds—cockers to finish into profitable egg producers. Ceretana Buttermilk Growing Mash is a developer, conditioner and finisher. Gradually change from Ceretana Buttermilk Starting Mash to Ceretana Buttermilk Growing Mash, starting about the fourth week. You cannot afford to stunt the growth of properly started chicks. Growing Mash fed at this age until maturity will pay big dividends on the investment.



Ceretana Pullet Scratch contains the same ingredients found in Ceretana Baby Chick Scratch. Milled to a size for growing chicks. Ceretana Pullet Scratch continues the growth and development so essential if your birds are to enjoy health and vitality and mature into active and vigorous producers.

For prices see colored insert.

## CERETANA TURKEY BUTTERMILK STARTER WITH COD LIVER OIL

Start baby turkeys RIGHT. Provide your poults with the elements so necessary to promote life, growth, early development. CERETANA TURKEY STARTER is an ideal feed, containing the important vitamins, minerals and ingredients especially compounded for the particular requirements of MONTANA TURKEYS.

CERETANA TURKEY STARTER is highly digestible and made from materials selected to eliminate the trouble of the feed pasting in the poult's mouth. Ask the turkey grower who used CERETANA last year and learn about the wonderful results obtained—the large, heavy and healthy birds.



## CERETANA LAYING MASH

Ceretana Laying Mash contains: choice meat meal, dried Buttermilk, Oat flour, Pea Meal, Flour Middlings, Wheat Bran, wheat flour, Gluten Feed, Yellow Hominy Feed, linseed meal, Steamed Bone Meal, Powdered Charcoal, Calcium Carbonate, 1 per cent Iodized salt.

### GUARANTEED ANALYSIS

Minimum Protein 20.00 per cent. Minimum Fat, 500 per cent. Maximum Fibre 5.50 per cent. Maximum Net. F. Ext. 50.00 per cent. Carbohydrates 55.50 per cent.

Egg production requires a proper protein, low fibre mash compounded from ingredients properly balanced highly digestible and palatable, containing the correct amount of animal protein and mineral content. Such a mash is Ceretana Buttermilk Laying Mash. Guaranteed to give "Feed Lot Results" or money refunded.



SEE FEED PRICE LIST ON COLORED INSERT

## DIAMOND G BUTTERMILK GROWING MASH WITH MANAMAR

This special mash is formulated so that you may develop the pullets into early and heavy winter layers. Containing **Manamar**, the mineral balancer, it adds that extra body weight that is so essential to heavy winter egg production. Do not make the mistake of starting the chicks on a good mash and then stunting them by lack of growing mash. Chicks fed **DIAMOND G GROWING MASH WITH MANAMAR** will come into heavy egg production from 6 to 7 weeks earlier than chicks that do not receive it. See price list.

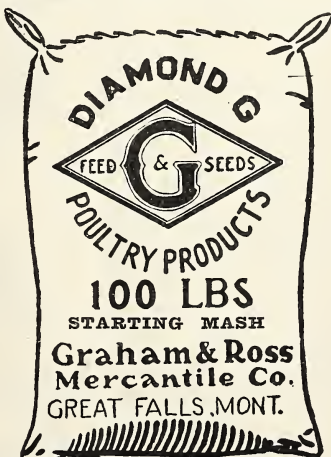


### DIAMOND G EGG MASH

This splendid well balanced mash is mixed according to the latest scientific formula. Carefully mixed and blended in power driven batch mixers. Customers tell us that it is the cheapest feed for maximum egg production that one can use. Hundreds of satisfied customers over the entire state of Montana prove the wonderful merits of this feed.

## DIAMOND G BUTTERMILK CHICK STARTING MASH WITH YEAST FOAM

During the past year we formulated a new egg laying mash with yeast foam and such excellent results have been obtained from this mash that we have decided to formulate a new chick mash adding this wonderful ingredient. Yeast is the greatest known source of vitamin "B", the vitamin found in the yolk of the egg that supplies the chick with its first food. The same valuable vitamin B is found in whole milk (the suckling infant's first food). That is why yeast is so valuable in dry or other forms of mash. When used to ferment, it breaks down starches that are so hard to digest and

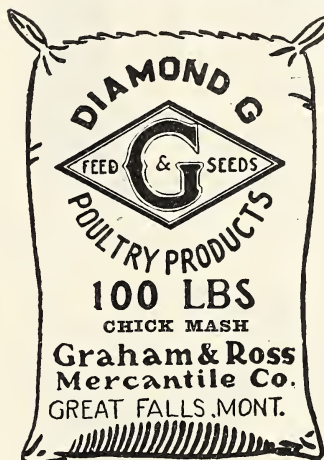


makes them easier digested. It releases more of the mineral salts the feed contains. It develops lactic acid. It increases the protein content of the mash through the action of the yeast cells in turning nitrogen into protein and the increase of the yeast cells. It thus reduces the protein cost of your feeds. In fact, fermentation is a partial pre-digestion.

While these things will be gained, to a certain extent, by feeding yeast in the dry mash, the results will not be as great as when the dry mash is supplemented with the fermented mash fed once a day. This for the reasons given above.

If you experience any bowel trouble with your baby chicks this season, we recommend using this new mash and giving one feeding a day of fermented mash. Complete directions for fermenting this mash is furnished with each sack. See price list

## DIAMOND G BUTTERMILK CHICK MASH WITH MANAMAR



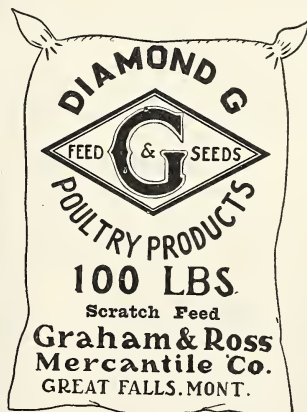
Coccidiosis, spring leg weakness, tuberculosis and fall paralysis, are not germ diseases that cannot be combated but are deficiency diseases caused from lack of certain minerals. Nature has been washing away the minerals from your soils, and carrying them down to the sea with every rain and thaw since creation. **MANAMAR** is ocean plant and animal life, balanced by Mother Nature, dried and prepared for you in concentrated form. No medicines, no messing, no handling of birds. Just

give them our new chick mash with Manamar added and nature will do the rest. **MANAMAR** has been used in chick mash and egg mash by successful poultrymen in Montana for the past two years with wonderful success and we are pleased to offer our many customers this new product. Complete directions furnished with every sack.

**DIAMOND G HEN SCRATCH**—This is composed of choicest grains in just the correct proportions that years of experience has demonstrated is right. Feed morning and evening at the rate of 1 pint to every 10 or 15 hens in the morning and 2 pints to every 10 or 15 hens in the evening.

### FREE

Booklet "Feeding for Eggs". A book written for Montana poultry men for Montana conditions. A help to any owner. Also an egg record card for the entire year. Order with your order.



## CALCITE, THE NEW WONDER EGG SHELL MAKER

Calcite is a new mineral that is rapidly replacing oyster shell. More satisfactory and profitable to use. Calcite is the purest known form of calcium carbonate, analyzing 99.78 pure, dissolves approximately in one hour while oyster shell requires from eight to twelve hours. Also valuable for stock feed. Per 100 lb. sack, \$1.65.

**SEE FEED PRICE LIST ON COLORED INSERT**

# Conkey's

## Y-O

TRADE MARK

### YEAST WITH COD LIVER OIL

Poultry experts advise that cod liver oil and yeast be added to all poultry rations to supply needed "Vitamins" to restore vitality taken out of poultry by modern "forcing" methods.

Conkey has thus solved the whole problem by blending a high quality of brewer's yeast with rich cod liver oil, by a secret process, which preserves the strength of both substances, and gives the poultryman a handy, practical, cheap method and feeding "vitamines."



#### GUARANTEED

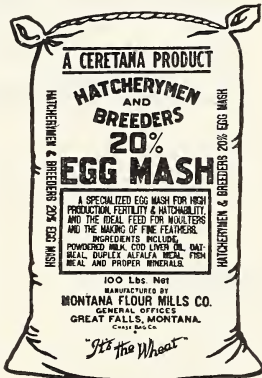
Conkey guarantees that your money will be cheerfully returned if you are not satisfied. All Conkey dealers are authorized to refund your money when you ask for it, but if you should have any difficulty, please write to Conkey.

Per 1 lb.,	.....\$0.60
Per 2 lb.,	.....1.10
Per 5 lb.,	.....2.25

### HATCHERYMEN AND BREEDERS EGG MASH

A new product manufactured by the Montana Home Mills Co. to meet the demand for a mash that will increase hatchability, fertility and help the birds through the moult.

We have introduced this feed to a number of our customers and the results they are obtaining are such that we do not hesitate to recommend it to our poultry customers. Composed of Fish Scraps, Meat Meal, Oat Meal, Milk Powder, Gluten Meal, Charcoal, Wheat Germ Meal, Corn Feed Meal, Calcium Carbonate, Linseed Meal, Bone Phosphate of Lime, Duplex Alfalfa Meal, 1% Iodized Salt, Cod Liver Oil.

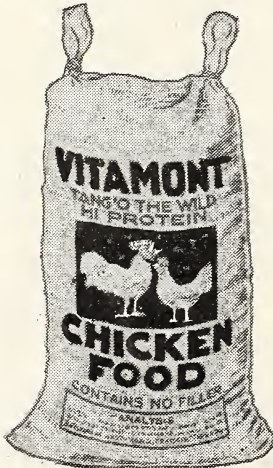


### VITAMONT MEAT SCRAPS

A new preparation manufactured in Montana, of choice, fresh meat and bone. Guaranteed to contain 50 per cent or more protein. If you mix your own mash VITAMONT will please you. Per will please you.

### VITAMONT DOG FOOD

A canned food composed of meat, vegetables and cereals cooked. This food is fit for human use and an ideal balanced food for all kinds of dogs of all ages. 2 cans, 38c; 6 cans, \$1.12; 12 cans, \$1.92; case of 48 cans, freight paid, \$6.95.



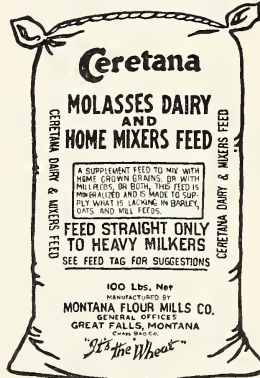
### CERETANA HOG FATTENER FOR MARKET PORK

A special prepared feed that will fatten your hogs, ready for market, at a minimum cost. Composed of corn Feed Meal, Wheat Flour, Barley Meal, Flour Middlings, Meat Meal, Pulverized Oats, Bone Phosphate of Lime, Charcoal, Calcium Carbonate, 1/2 % Iodized Salt.

**CAUTION**—Do not feed to young pigs nor as a growing ration. A trial of this wonderful fattening feed will convince you that you can save money by using it and at the same time finish the hogs ready for market in a shorter fattening period. See feed price list.



### CERETANA MOLASSES DAIRY AND HOME MIXERS FEED



No one feeding milk cows can afford to be without this feed. This is a real supplement ration to mix with home grown feeds or with mill feed. It is mineralized and is made to supply what is lacking in barley, oats and mill-feed. Composed of Molasses Gluten Feed, Linseed Meal, Cottonseed Meal, Corn Feed Meal, Duplex Alfalfa, Wheat Mixed Feed, Oats, Barley, Calcium Carbonate, 1% Salt, Bone Phosphate of Lime.

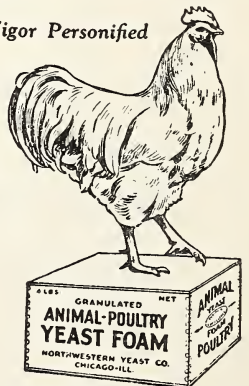
### ANIMAL POULTRY YEAST FOAM BUILDS VIGOR

Yeast Foam makes any feed better—makes any feed go farther, and builds health and vigor for the following reasons. Yeast is the greatest known source of vitamin B (the vitamin found in the yolk of the egg that supplies the chick with its first food).

When used to ferment, it breaks down starches that are so hard to digest and makes them easier digested. It releases more of the mineral salts the feed contains. It develops lactic acid. It increases the protein content of the mash through the action of the yeast cells in turning nitrogen into protein and the increase of the yeast cells. It thus reduces the protein cost of your feeds. In fact, fermentation is a partial predigestion.

We suggest adding yeast foam to the starting mash, growing mash, and egg mash, also if you feed dairy ration add same to it. Full feeding directions for mixing and also fermenting mashes furnished with each order. Per lb., 30c postpaid. 4 lb. pkt., postpaid \$1.00.

#### Vigor Personified



SEE FEED PRICE LIST, COLORED INSERT

## MANAMAR

Coccidiosis, spring leg weakness, tuberculosis and fall paralysis should not be considered germ diseases that cannot be combatted. **THEY ARE DEFICIENCY DISEASES** caused from lack of certain minerals. MANAMAR is a mixture of organic and plant life taken from the sea, dried and prepared for you to add to your poultry or stock feed rations. Every mineral element that your birds or livestock are suffering from lack of, is in the sea water. Comes prepared for feeding. Simply add 10% of MANAMAR to your chick mash, growing mash, egg mash or dairy feeds and the results will surprise you. Per 100 lbs., \$6.25; 50 lbs., \$3.50; 25 lbs., \$2.00; per lb., 10c.

We manufacture a chick starting mash with MANAMAR.

### FOR LIVESTOCK AND DAIRY



### DISINFECTANT DEODORANT STERILIZER

For Sanitation

In Preventing	In Sterilizing
Abortion	Milk Cans
Retained Afterbirth	Milk Bottles
Calf Scours—Bloat	Bottle Fillers
Udder Infections	Separators
Poultry Diseases	Strainers
Little Pig Diseases	Milking Machines

For Disinfecting and Deodorizing

Farm Buildings  
The Home

10 oz. bottle, 70c, prepaid.  
1 qt. bottle, \$1.35 prepaid.

**ALFALFA MEAL**—For winter feeding Alfalfa Meal is the best form of green feed so essential to winter egg production. Mix in any mash. Made from choice Alfalfa leaves.

**BARLEY FLOUR**—Used by all successful people who mix their own mash.

**BONE** (Special Steamed)—Good for stock and poultry on account of its easily digested mineral properties. Furnished in 3 sizes, meal, chick and hen.

**BUCKWHEAT**—Very rich in oil and relished by all poultry.

**BUTTERMILK DRIED**—No chick mash complete without this wonderful feed. No laying mash complete on account of the lactic acid found which helps digestion and prevents leg weakness.

**CHARCOAL** (Hardwood)—Absorbs gases and aids digestion. Keeps fowls and stock in better health. Furnished in 3 sizes, chick, hen, lump.

**COD LIVER OIL**—Without doubt the greatest discovery of the past few years for increasing egg production, overcoming soft shelled eggs and preventing leg weakness. Each gallon weighs 11 pounds.

**COPPERAS**—The ideal tonic used for poultry, turkeys and stock. Can be fed alone or in mixtures, full directions with each sack. High in iron used to tone up system and place stock back on feed. Druggist grade per pound, 15c. Over 5 lbs. at 12c per lb.

**CORN NO. 2 YELLOW**—In buying corn for your poultry be sure that you obtain dry yellow corn. We sell nothing but No. 2 dry yellow. Write for prices when in need as the market fluctuates on this article.

**CORN** (Cracked Rescreened)—In purchasing cracked corn for your scratch feed, buy nothing but rescreened as the meal in common corn is a waste.

**CORN MEAL** (Yellow)—Used for mixing mashes.

**COTTON SEED MEAL**—This product contains 43 per cent protein. Used by successful poultry feeders and dairymen.

**EPSOM SALTS**—All flocks need this laxative every two months. Feed one pound of salts to every 100 birds.

**FLAX MEAL** (Druggists Grade)—One tablespoon in a mash to each dozen fowls is a great help during the moulting season.

**GRIT (CRYSTAL)**—Called the hen's teeth. You are not getting maximum results from the feed you are giving your hens if you do not furnish them with Crystal Grit. Gravel, glass or ashes will not take the place of this hard Crystal Grit.

**LIME** (Unslaked)—Used by all poultrymen in keeping the hen house clean by white-washing.

**LINSEED OIL MEAL** (Old Process)—Used in all mashes and stock feeds.

**MEAT SCRAPS (DARLINGS)**—Must be used in every mash for maximum egg production.

**MEAT SCRAPS (VITAMONT)**—See description in this catalog.

**MILLET**—If you mix a home-made mixture of scratch for the baby chicks, by all means add Millet on account of the oil found in it which helps build feathers.

**MILO MAZE**—Birds relish a change in diet the same as you do. Feed them a mixture of wheat, oats, barley, milo maze and sunflower and notice the results.

**OAT FLOUR**—For those who wish a lower priced article, and at the same time benefit any poultry mash, we manufacture this feed. Easily digested on account of the low fibre content.

**OAT GROATS (Whole)**—Used in all successful baby chick mashes. High in feed value and easily digested.

**OATS ROLLED** (Oat Meal)—The highest grade of oat meal obtainable. Used by turkey raisers with great success.

**OYSTER SHELL FLAKES**—A new product for poultry. Over 98 per cent pure carbonate of lime. Triple washed and absolutely free of dust or fine particles. When you purchase 100 lbs. of Oyster Shell Flakes you obtain 100 pounds of useful feed.

**POULTRY MINERAL** (Blatchford's)—Ideal for soft shelled eggs, leg weakness and promoting health.

**SUNFLOWER SEED**—Used by poultry fanciers to obtain a bright lustrous plumage. High in oil and ideal for parrots.

## CERETANA CALF MEAL



A milk supplement ration scientifically balanced and skillfully milled. Manufactured from the very finest of materials. Protein 24 per cent and highly digestible. Thousands of bags have been sold and the wonderful reports from feeders is your guarantee that you will be more than pleased with the results from **CERETANA CALF MEAL**, and the money saved. Per 25 lb. bag, \$1.50. Add postage.

## CERETANA LAMB MEAL

Raise young and orphan lambs with **CERETANA LAMB MEAL**. A carefully compounded, palatable and safe **MILK SUPPLEMENT** ration to produce bone, nerve, muscle, fat, growth, vigor and vitality.



HOG RAISERS

Try Some Montana Tankage This Season

The usual feed or corn and other grains lack the necessary protein and phosphates, which are absolutely necessary for proper development and growth of hogs for profitable returns and the analysis of Montana Tankage shows it to contain nearly 60 per cent protein, which is the reason that if Montana Tankage is added to your regular feed, hogs will mature much more quickly than without it and will in most cases develop a much nicer hog.

FEEDING INSTRUCTIONS

For young pigs on separate feed mix a tablespoonful of Montana Tankage with each feed.

For growing pigs two or three months, mix one part of Montana Tankage with ten parts regular grain ration.

For fattening mature hogs mix one part of Montana Tankage with fifteen parts regular grain rations.

Some feeders start with one-half pound tankage per day for hogs, 100 lb in weight, under that weight, decrease and gradually increase up to one half pound per day.

If mixed with slop always feed the Montana Tankage just before feed.

Montana Tankage is a very rich food and precaution should be taken not to over-feed at any time.

RAISE YOUR CALVES WITHOUT MILK



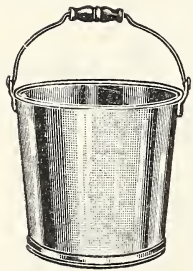
Blatchford's Calf Meal has been used for over 125 years and is still showing its superiority over all others. Millions of calves raised on it each year. Per 25 lb. sack, \$1.75; per 50 lb. sack, \$3.25; per 100 lb. sack, \$6.25. Add postage or freight.

Dairymen's Supplies

MILK BOTTLES

Heavy, clear, crystal glass with heavy reinforced glass top; easily cleaned and sanitary, accurate in measurement.

Size	Amount	Weight	Price
1/2 pints	Dozen	12 lbs.	\$00.70
1/2 pints	Gross	120 lbs.	7.75
Pints	Dozen	20 lbs.	.90
Pints	Gross	170 lbs.	9.25
Quarts	Dozen	30 lbs.	1.15
Quarts	Gross	300 lbs.	12.75



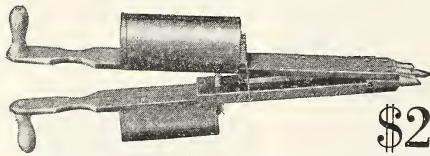
MILK BOTTLE CAPS

Made of ground pulp-wood; easily inserted or removed. Will fit all standard size bottles. Per pound, 30c; postpaid, 38c.

DAIRY PAILS

Tin body, sanitary soldered; every seam soldered perfectly smooth, inside and out. There is no place for germs or dirt to lodge. Heavy bail reinforced bottom. 14 qt., 4 lbs., 75c; 16 qt., 5 lbs., \$1.00, postpaid.

ACME CORN PLANTER WITH FERTILIZER ATTACHMENT



\$2.65

Made with the famous Two-hand slide type. Divided jaws prevent corn being deposited in contact with fertilizer. Plant your corn this year with the new type fertilizer planter and obtain a more uniform stand without bunching of stocks and also early matured corn on account of planting fertilizer at the same time corn is planted.

No. 308, Weight, 8 lbs., Each ----- \$2.65

FREE BULLETINS FOR DAIRYMEN

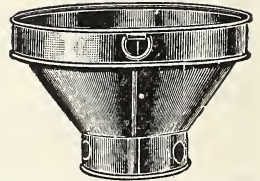
The General Laboratory Company, manufacturers of B-K have issued attractive and very useful bulletins that will interest all dairymen. These are free for the asking. No. 112 Separator; 124, Milking Machine; 116, Bottles; 928, Milk Cans; 320, Better Food and Dairy Products.

MILK STRAINER NO. 2061H

Made of milkman's tin, seamed and soldered; wire ring handle; wire top rim; 4 1/2 brass strainer and hoop and rim to fasten cloth. Each 75c; postpaid 85c.

MILK STRAINER NO. 2061K

Made exactly the same as 2061 H with the exception that it has no lower rim to fasten strainer cloth to. Each 50c; postpaid 60c.



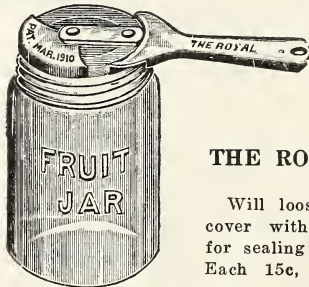
STRAINER CLOTH

Made of brass 12 inches wide. Used for straining milk and other liquids. Can be used for replacing strainers in funnels. Per square foot, 35c postpaid.

MILK PANS

Made of the best grade of retinned milkman's tin. Will not rust. Stamped from one piece, which makes them seamless; extra wide flange. Capac. Wt. Prc. Capac. Wt. Prc. 3 qts. 1 lb. 15c 6 qts. 1 1/2 lbs. 50c 4 qts. 1 lb. 20c 8 qts. 2 lbs. 60c Postpaid.

SPECIAL—One of each of the above pans, postpaid, \$1.49.



15c

THE ROYAL MASON JAR WRENCH

Will loosen the most obstinate cover with ease. Also valuable for sealing a jar absolutely tight. Each 15c, postpaid.

HAND CORN PLANTER



\$1.50

The two-hand, slide type, is the oldest and most widely known form of corn planter. Won't crack corn; Won't grind or bind; won't wear quickly like a cast slide. Light and strong. Operates easily from the start. This is one of the most popular hand planters ever sold. Price \$1.35, postpaid \$1.50.

**\$3.48****BLACK HAWK CORN SHELLER**

Just the thing for the farmer growing a small tract of corn. A sheller that shells. It can be set to shell any corn that grows. Made with ball-bearing, obviating the expense of a heavy balance wheel. Easily fastened to any bin, box or barrel by thumbscrews—no bolts nor screws required—no holes to bore. Price, \$3.48; postpaid, \$3.95.

**COLEMAN GENERATOR 39c**

Q. 99 Longlasting, Each 39c; Postpaid, 44c. Two for 75c; Postpaid, 80c.

Coleman Straight Generator, Each 20c; Postpaid 25c; Two for 35c; Postpaid, 40c.

New Generator for the New Instant Lite Lamps and Lanterns, each 40c.

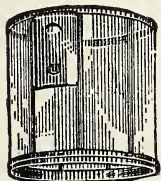
We carry a complete line of repair parts for all Coleman Lamps and Lanterns. Write us your wants.

**NEW STYLE STRAIGHT GENERATOR**

This new generator fits all styles of Coleman lamps and lanterns. Quickly installed. Each 25c, postpaid.

**NEW AMERICAN TYPE GENERATOR**

This new type generator fits all of the new style Instant Lite Coleman lamps and lanterns and is self cleaning. A wonderful saving to all Coleman users. New automatic cleaning device enables one to use a lower grade fuel and still maintain a brilliant light. Each 60c, postpaid.

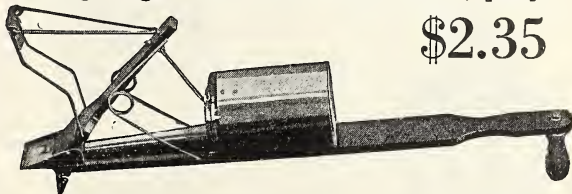
**NO. 333 INSECT SCREEN**

Made of strong wire heavily coated with asbestos. Protects mantels from flying insects. Each 90c, postpaid 98c.

**IMPROVED CYCLONE SEEDER****EACH \$2.23**

Has a slope feed board. This feature is found in no other seed sower. The Improved "Cyclone" is guaranteed to sow perfectly a seed that can be sown broadcast, such as clover, timothy, millet, alfalfa, rape, wheat and oats.

Nothing to get out of order. Price \$2.23, postpaid.

**\$2.35****ROTARY AUTOMATIC CORN PLANTER**

Extreme accuracy of drop due to novel exclusive and common sense design of seed plates and brass spring cut-off of stripper.

Every convenience for use; no tools required to make adjustments simple, strong and durable. This planter will accurately and easily plant your favorite number of kernels in every hill all day long. Used just like a walking stick.

WILL NOT CRACK OR BIND THE CORN.  
Each \$2.35; postpaid, \$2.50.

**BARIUM CARBONATE**

A tasteless and odorless mineral, recommended by the United States Government for extermination of rats and mice. Reasons given in Farmers' Bulletin No. 896, page 19.

Price per package, 25c.



**Kill Rats  
Without Poison  
with K-R-O**

**Won't Kill Livestock, Poultry, Dogs, Cats or even Baby Chicks.**

K-R-O can be used with safety around the home, barn, poultry yard or anywhere, as it contains *no deadly poison*.

**Results guaranteed or your money back from us.**

Don't take chances with poisons.  
Read what your neighbor says of K-R-O.

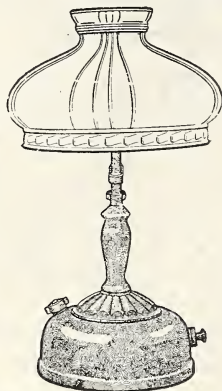
Postpaid for 75c.

## THE NEW INSTANT LITE COLEMAN LAMP

No pre-heating—no generating. Turn valve and light mantles. Triple life generator, tip cleaning needle automatically cleans gas tip. New safety air release principle. More candle power. New imbossed fount, new Grecian-vase type handle, new Kreme-Lite shades. Colored in harmonizing blends of old gold, forest green and autumn brown.

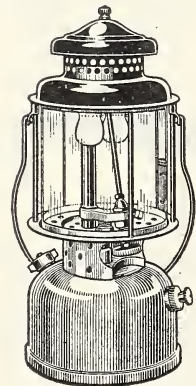
No. 117, with pump, wt. 12 lbs., \$9.00. Postpaid.

No. 118, with built-in pump, 12 lbs., \$9.50. Postpaid.



## THE NEW INSTANT LITE COLEMAN LANTERN NO. 220

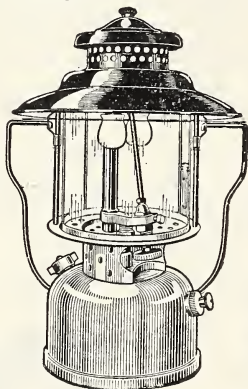
The lamp of a thousand uses. Same construction and principle as the Instant Lamp. Fitted with new six-piece mica chimney that is rain-proof, wind-proof, storm-proof and insect-proof. Hand-operated filler plug, no wrench necessary. No. 220 with built-in pump, weight 8 lbs., \$8.00. Postpaid.



## THE NEW INSTANT LITE LANTERN NO. 228

The same construction with built in pump as No. 220 with the exception that this lantern is equipped with new porcelain enamel reflector top that is heat resisting; won't discolor or tarnish. Helps throw the rays of light where they are most useful.

No. 228, wt., 8 lbs., \$8.30. Postpaid.



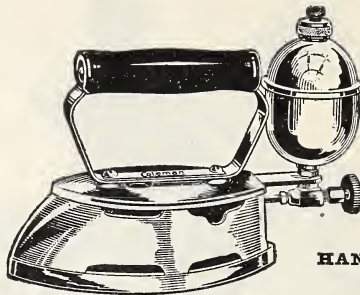
## COLEMAN RADIANT HEATER



**THE COLEMAN RADIANT HEATER** is a complete heating plant. It makes and burns its own gas from any good grade of regular motor gasoline. Gives regular city gas service without pipes, flues and hose connections. No installation is required. Just light it and use it.

## THE IMPROVED COLEMAN SELF-HEATING IRON—NEW STYLE

HAND-SOME  
NICKEL  
FINISH



“THE  
IRON  
WITH  
THE  
COOL  
BLUE  
HANDLE”

**ECONOMICAL**

Takes the place of a whole set of the heavy old-style irons.

Eliminates the expense and work of heating up the stove.

Does an average ironing at a fuel cost of about one cent. Soon saves its cost in saving of fuel; also saves time, strength and clothes.

**CONVENIENT**

Generates and heats up ready for use in five minutes without use of pump or torch. Can be used anywhere, any time, indoors or out—No working over a hot stove.

**ADVANTAGES**

The only gasoline iron with a genuine **HOT POINT** at the front end.

Handle always cool, because protected by asbestos lined lid.

Frees the user from a hot stuffy room on ironing day—she irons in cool comfort.

Instant Lite, \$6.75; postpaid, \$7.00.

## GENUINE HIGH POWER COLEMAN MANTLES

**GIVE MORE LIGHT, MADE STRONGER  
GIVE BETTER LIGHT, LAST LONGER**



Made Especially for Use on Coleman Quick-Lite Lamps and Lanterns.

Repeated tests have proved that Coleman Mantles give the user of Coleman Quick-Lite Lamps and Lanterns the best quality of light, the greatest quantity of light, and the longest, most satisfactory lighting service—all at the lowest cost possible. Per Pair 20c; Per Dozen, \$1.00 postpaid. German Silk Mantles, per

pair, 20c; doz., \$1.00, postpaid.

It's clean heat, too—no smoke or soot to blacken walls and curtains. No dirt or ashes to litter up the floor.

Also, this heater is easy to regulate—produces either just enough heat to take the chill or dampness out of the room, or, for winter's coldest days throws a steady stream of brisk, snappy warmth right where it is most needed.

Cost to operate, less than 2 cents per hour. Provides 12 or more hours' heating services per gallon of fuel. Each delivered \$29.75.

## WYANDOTTE CLEANER AND WATER SOFTENER

This is the great cleaner and cleanser used by nearly all dairymen and creameries. This is especially prepared for the purpose for which it is used. A wonderful water softener. Used successfully for cleaning milk bottles, milk cans, separators, family washing, silk and delicate fabrics, dishes and glassware, carpets and rugs, and sinks, bath tubs, etc. 1½ lb. can, 14c; postpaid 20c. 5-lb. sack, 49c; postpaid 60c.



# Vegetable Seeds

PRICES QUOTED INCLUDE FREE DELIVERY of packets, ounces, quarter pounds, half pounds, and pounds, except where otherwise noted.

## ASPARAGUS

Once established, it is good for years. The older the bed, if properly cared for, the better and more tender the shoots. It is one of the most wholesome and delicious of all early spring vegetables. Matures and is ready for consumption earlier in the spring than any other vegetables. Two-year-old roots are most desirable for quick results.

**WASHINGTON**—This asparagus which has been selected by the United States Department of Agriculture. Washington, D. C., has proven to be nearly rust free. The shoots are thick and heavy. They are long and straight, with closely folded tips. The color is rich dark green, tinted darker at the tips. It is a heavy yielder of exceptionally fine flavor. Pkt., 10c.; oz., 50c.

**CONOVER'S COLOSSAL**—The standard variety of larger size, tender and of excellent quality. Pkt., 5c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.00.

## ASPARAGUS ROOTS

Our two-year-old Asparagus roots are heavy, clean stock that will make a vigorous growth the first season and are the Washington Rust Proof Variety which we consider to be the best by far. Postpaid prices, 1 doz., 75c; 50 plants \$2.65; 100 plants \$5.00.

## "X-L" HI-GERMINATING BEANS

ALL OUR BEANS ARE HAND PICKED



**CULTURE**—Do not plant them until the ground becomes dry and warm. Bush beans may be planted about 2 inches deep in drills from 24 to 30 inches apart, according to variety and soil, placing the seed 3 inches apart, or 4 seeds in hills 24 inches apart each

way; 2 pounds per 100 foot drill.

Cultivation should be frequent until the plants begin to bloom, but only when the foliage is dry, for if disturbed when wet the vines will rust.

## BUSH BEANS—Wax Pod Varieties

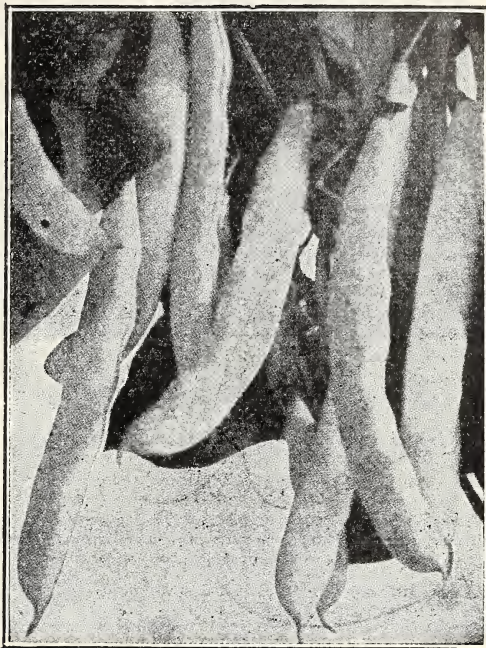
**DAVIS' WHITE KIDNEY WAX**—Hardy, productive, desirable where white-seeded midseason sort is wanted.

**IMPROVED GOLDEN WAX**—Very early; round golden pods.

**WEBBER WAX**—Unquestionably one of the best wax-podded beans ever introduced. It is a market gardener's bean. The pods are of an exceedingly bright yellow color, round and meaty.

**PENCIL POD BLACK WAX**—Very early and prolific. The pods are round, full, stringless and of fine quality.

**UNRIVALED WAX**—There is probably no variety of Wax Bean grown that has a greater all-round value than this one. It has a small plant, is very early, and bears enormous crop of pods about 5½ inches long, somewhat curved, semi-flat, rather slim, but fleshy, and of



Unripped Wax

the finest texture and tenderness. The color is a translucent yellow.

Prices for above Beans: Pkt., 5c and 10c; ½ lb., 25c; 1 lb., 45c, postpaid. 5 lbs., \$1.75, not prepaid.

## BUSH BEAN—Green Pod Varieties

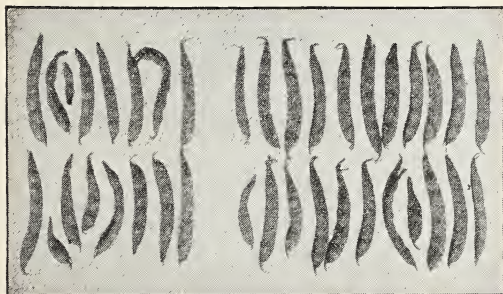
**REFUGEE OR ONE THOUSAND TO ONE**—Pods about five inches long, round curved, light green slightly stringy. Used extensively for canning. Extra early.

**BURPEE'S STRINGLESS GREEN POD**—Excellent early variety. Unexcelled for canning. A standard everywhere.

## STIMUPLANT

Makes a  
WONDER GARDEN

Prices for above Beans: Pkt., 5c and 10c; ½ lb., 25c; 1 lb., 45c, postpaid; 5 lbs., \$1.75, not prepaid.



Somesan Disinfectant Increases Yields of Beans

On the right are pods picked from a single Semesan-treated plant, while those from a typical untreated one are shown on the left. Note the larger number, better development and also greater yield caused by Semesan treatment.

## GRAHAM AND ROSS'

### "GET ACQUAINTED" SPECIAL

#### FARM GARDEN COLLECTION ..... \$1.50

½ lb. Beans (Golden Wax)	25c
1 oz. Beets (Detroit)	15c
2 pkts. Carrots (Danver H. Long)	10c
1 pkt. Cabbage (Danish Ball Head)	5c
½ lb. Corn (Golden Bantam)	25c
1 Pkt. Cucumbers (Early Fortune)	5c
1 pkt. Lettuce (Grand Rapids)	5c
1 pkt. Head Lettuce (Iceberg)	5c
½ oz. Onions (Yellow Globe Danver)	15c
½ lb. Peas (Little Gem)	20c
2 pkts. Parsnips (Hollow Crown)	10c
1 pkt. Pumpkin (Sugar or Pie)	5c
1 pkt. Pumpkin (Conn Field)	5c
1 oz. Raddish (Early Scarlet Globe)	15c
1 pkt. Squash (Hubbard)	5c
1 pkt. Spinach (Long Standing)	5c
1 pkt. Turnip (P. T. Strap Leaf)	5c
1 pkt. Rutabaga	5c

Value if ordered separately .....\$1.85

PRICE POSTPAID .....\$1.50





X-L Imported Golden Self Blanching

## BROCCOLI

One ounce seed will produce about 2,000 plants. Give them the culture required for cauliflower, as it is very similar. It is generally taller and the heads are more divided. Broccoli stands greater extremes of temperature than cauliflower and is better adapted for late fall planting. Broccoli can be sown either in the spring or fall.

**EARLY WHITE CAPE**—The best variety; heads white, compact and hardy; a vigorous and easily grown sort. Pkt., 10c; ½ oz., 35c; 1 oz., 60c, postpaid.

## SWISS CHARD OR SPINACH BEET

One ounce will sow 100 feet of row.

**GIANT LUCULLUS**—The Swiss Chard or Spinach Beet is prepared for the table in the same manner as spinach; sometimes, however, the midrib is prepared like asparagus. Seed planted early in the Spring will quickly produce plants from which cuttings may be made in 24 days, and continued all Summer, as you can cut right down to the ground, and new shoots will soon spring up and make a fast growth, while those plants which are allowed to grow on without any cutting will make large, curly leaves, with thick, light colored midribs, which are delicious when cooked and served like asparagus. Pkt., 10c; oz., 15c; ¼ lb., 45c; lb., \$1.50.

## MANGEL-WURZEL AND SUGAR BEET BEET GROWN FOR FEEDING STOCK

An invaluable crop for stock feeding. Highly relished

by cattle, resulting in improved health and condition, increasing the yield of milch cows. Sow from April to June, on well cultivated, deep, rich, soil, in drills 24 to 30 inches apart; 6 to 8 pounds of seed are required per acre.

**GOLDEN TANKARD**—The best long, yellow mangel in cultivation. Relished by milch cows and sheep. Maturing earlier than other large sorts. Producing more to the acre than any other large sort.

**MAMMOTH LONG RED**—This is an enormously productive variety, yielding from 50 to 70 tons to the acre, a single root often weighing from 20 to 40 pounds. It is the best long red mangel. Very good on account of its nutritious and milk-producing qualities.

**KLEIN WANZLEBEN SUGAR**—The roots are larger than Vilmorin's Improved and is hardier and easier grown. The tops are rather large and the leaves slightly waved. It is the largest yielding and best for sugar making. Pkt., 5c; ¼ lb., 25c; lb., 60c; 10 lb., \$5.50, postpaid.

**GIANT FEEDING SUGAR**—Sometimes is called Half Sugar Mangel, and one of the most desirable for stock feeding affording much larger crops and easier harvested than other sorts. It has high nutritive value, being especially rich in sugar. Pkt., 5c; ¼ lb., 20c; 1 lb., 60c; 5 lbs., \$2.50, postpaid.

**GIANT RED ECKENDORF**—One of the most popular European varieties contains a large amount of nutritive matter; it is also a remarkable yielder. The great red roots, cylindrical in form, weigh 15 to 20 pounds each, the greater proportion growing above the ground.

Prices for the above beets: Ounce, 10c; ¼ lb., 20c; ½ lb., 35c; 1 lb., 60c, postpaid; 5 lbs., \$2.50, not postpaid.

## "X-L" HI-GERMINATING CELERY

**CULTURE**—Sow in beds in February or March and keep well watered. Transplant from July to October to moist, mucky soil, six inches apart in 12-inch rows. Earth up two or three times. Cover with straw from severe weather, with boards on top.

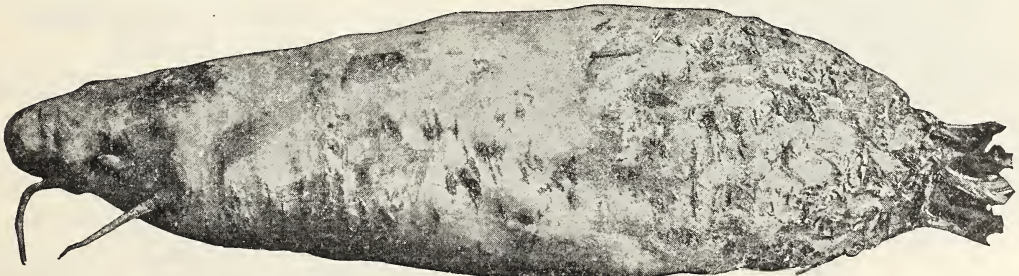
**GOLDEN SELF-BLANCHING**—(Graham & Ross' Selected Imported Stock). The choicest sort of delicious celery; it excels all other yellow varieties. Dwarfier, larger bunches with broad, heavy stocks which blanch into a rich, appetizing, golden yellow. When you purchase X-L Brand Golden Self-Blanching Celery you secure the very best seed of the very best sort of celery that skillful growing and exceedingly careful selection, cleaning, etc., can produce. The French originators of this variety have lately introduced a re-selected strain which they are now using. It is earlier and stronger growing than the older type. We offer the two strains separately, the new type FRENCH grown by the originators and the old type American grown.

Old Type, Dwarf strain, American Grown—Pkt., 10c; ½ oz., 35c; 1 oz., 60c; ¼ lb., \$2.00; lb., \$6.00.

New Type, tall strain. Selected French Grown—Pkt., 20c; ½ oz., 80c; 1 oz., \$1.50; ¼ lb., \$5.50; 1 lb., \$20.00.

**WHITE PLUME SELF-BLANCHING**—An attractive quick growing variety, well known for the short time necessary in blanching. Suitable for home or truck garden on account of earliness. Pkt., 10c; ½ oz., 20c; 1 oz., 35c; 2 oz., 65c; ¼ lb., \$1.25; 1 lb., \$4.00.

**WINTER QUEEN**—The most valuable winter celery. Largest and heaviest hearts of any celery we know. Pkt., 10c; ½ oz., 20c; oz., 35c; ¼ lb., \$1.00; lb., \$3.50.



Golden Tankard

## "X-L" HI-GERMINATING CABBAGE

**CULTURE**—For the earliest supply, seed should be sown in the house, or hotbed, and the plants set out as early as the ground is ready, 1½x2 ft. in the garden, or 2x3 ft. in the field. For fall crop the seed should be sown in June and transplanted to the field in July.

### FIRST EARLY

**GOLDEN ACRE**—The finest variety that has been developed in years. Once used, it is preferred by all people on account of the extreme earliness, perfect heads, and wonderful keeping qualities. It will mature about 7 days ahead of the earliest strains of Jersey Wakefield, considered the standard early of the country. Pkt., 10c; oz., 40c; ¼ lb., \$1.50.

**EARLY JERSEY WAKEFIELD**—The earliest and most sure-heading of the first early cabbages and largely grown in the South for shipment to early northern markets. Plants exceedingly hardy, with a short stem; heads of medium size, very solid, uniformly pointed and excellent quality. Pkt., 5c; oz., 30c; ¼ lb., \$1.00; 1 lb., \$3.00, postpaid.

**"X-L" BRAND EARLY SPRING**—The earliest flat head, as early as Jersey Wakefield. Yields one-third more than the early pointed heads. Solid, uniform and finely grained heads. Stem is short and extends but little into the head. Pkt., 5c; oz., 30c; ¼ lb., \$1.00; 1 lb., \$3.00.

**COPENHAGEN MARKET**—The finest large, round-headed, early cabbage. Very solid; of fine quality; short-stemmed. Pkt., 5c; oz., 25c; ¼ lb., \$1.15; 1 lb., \$3.50, postpaid.

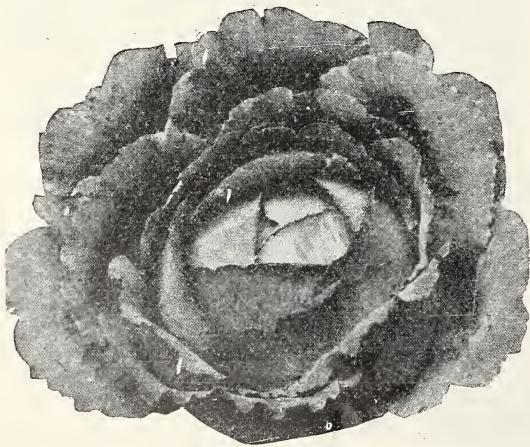
**EARLY WINNIGSTADT**—It is a sure header, even where other sorts may fail and seems to be less liable to the attacks of cabbage worm than many other varieties. Matures in 90 days. Pkt., 5c; ½ oz., 20c; 1 oz., 30c; ½ lb., 90c.

**GLORY OF ENKHUIZEN**—The earliest and largest white Cabbage—attractive for market purposes. Solid with large ball shaped heads thin-ribbed and hard, few outside leaves; exceedingly tender. Is a dwarf and compact grower; allowing close planting; will yield more tons per acre than any other variety, 90 days. Pkt., 10c; ½ oz., 20c; oz., 35c; ¼ lb., 95c; 1 lb., \$2.75, postpaid.

### SECOND EARLY VARIETIES

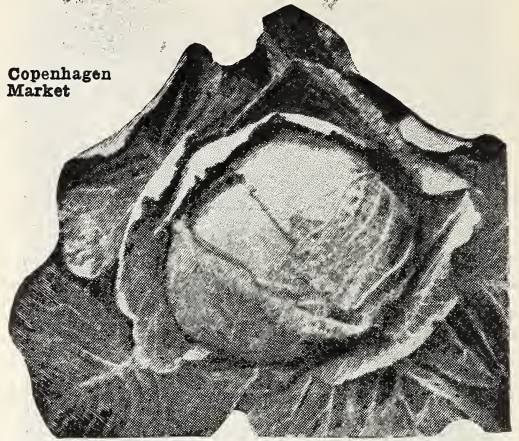
**EARLY SUMMER**—A reliable second early Cabbage, which matures about ten days after the Jersey Wakefield. It makes a large, solid, flattish head, with short outer leaves, which admit of close planting in the field, and is a good keeper. This variety, maturing so soon after the pointed head sorts, is exceedingly valuable for growing as a second crop, and as it is suited to all sections it is very largely grown. 110 days. Pkt., 5c; ½ oz., 20c; oz., 35c; ¼ lb., 95c; 1 lb., \$2.75, postpaid.

**EARLY DWARF FLAT DUTCH**—An early cabbage of good size. Heads are flat and very solid. Pkt., 5c; oz., 30c; ¼ lb., \$1.00; 1 lb., \$3.00, postpaid.



Danish Ballhead

Copenhagen Market



**SUCCESSION**—A good summer cabbage, providing one is able to secure true stock. We have the true imported stock and our customers are pleased with the splendid solid heads obtained from this variety. A good cabbage to succeed itself. Pkt., 5c; oz., 30c; ¼ lb., 90c; 1 lb., \$2.50.

### LATE OR WINTER VARIETIES

**LARGE LATE FLAT DUTCH**—For a main or fall crop of large flat heads nothing is superior to this sort. It is very hearty, a reliable header and never disappointing when a good strain is planted. Pkt., 5c; oz., 35c; ¼ lb., \$1.00; 1 lb., \$3.00.

**DANISH BALLHEAD**—A well known variety on account of its solid heads and unsurpassed keeping qualities. Heads are of medium size with few outer leaves. Solid, crisp, tender with small amount of waste. Pkt., 5c; oz., 35c; ¼ lb., \$1.00; ½ lb., \$1.60; 1 lb., \$3.00, postpaid.

**SUREHEAD**—One of the most reliable main crop of late cabbage for northern latitudes, being very hardy and exceptionally sure heading. The heads are large and broad, thick, somewhat flattened, compact, very solid and of excellent quality. 120 days. Pkt., 5c; ½ oz., 20c; oz., 35c; ¼ lb., 90c; 1 lb., \$2.50, postpaid.

**LARGE LATE DRUMHEAD**—This fine cabbage is very popular with the kraut makers. It is a medium late variety, forming a large solid head, which seldom bursts. It is used largely by shippers in the vicinity of Chicago who ship cabbages South. Pkt., 5c; oz., 30c; ¼ lb., 90c; 1 lb., \$2.50.

**AMERICAN SAVOY**—The best crumpled leaf cabbage. The Savoy cabbage is noted for its fine and delicate flavor. The leaves are wrinkled or densely crumpled. Matures fine large heads. A good keeper, and one of the best sorts for the home garden. Pkt., 5c; oz., 30c; ¼ lb., 90c; 1 lb., \$2.50, postpaid.

**CHINESE (PE TSAI)**—Commonly known in the markets as Celery Cabbage; blanches white; used in salads or cooked. Pkt., 5c; oz., 30c; ¼ lb., 90c; 1 lb., \$2.50, postpaid.

**RED ROCK**—The largest and surest-heading red cabbage. Pkt., 5c; oz., 30c; ¼ lb., 90c; 1 lb., \$2.50, postpaid.

## "X-L" HI-GERMINATING CAULIFLOWER

**CULTURE**—Cultivate as directed for cabbage. In dry weather water liberally. Cauliflower likes a cool, moist situation.

**EXTRA EARLY SNOWBALL**—One of the best for forcing or open ground.

**DRY WEATHER**—This variety is especially adapted for long, dry seasons.

Price—Pkt., 15c; ¼ oz., \$1.00; oz., \$2.00; ¼ lb., \$7.50.

SEE OUR COMPLETE LINE OF STARTED VEGETABLE PLANTS ON PAGE 45.



Burbank Bantam

## "X-L" HI-GERMINATING GARDEN SWEET CORN

**CULTURE**—Plant as soon as the ground becomes warm in the spring, in hills about three feet apart; give thorough cultivation. Our sweet corn is carefully grown and selected, only the choicest, most perfect ears being selected for seed. It is far superior to ordinary stock. We pay postage by the packet or pound.

**BURBANK BANTAM**—We consider this new variety of corn a gold mine for the market gardener. Much earlier than the original Bantam, yet it contains the original Golden Bantam flavor. A tremendous yielder of large ears containing from 14 to 16 rows. Pkt., 10c; ¼ lb., 20c; ½ lb., 35c; 1 lb., 60c.

**GOLDEN BANTAM SWEET CORN**—A very early sweet corn with golden yellow grain, very tender and of excellent quality. The ears are six to seven inches long and of the medium size found most suitable for the table. The flavor is exceptionally rich and delicious.

**PEEP O'DAY**—For earliness, flavor sweetness and productiveness it is ahead of any other early white sweet corn. It will prove a money-maker for the market gardener, and a valuable addition to our list of corn for our short western summers.

**WHITE CORY, EXTRA EARLY**—One of the earliest varieties well and favorably known in all parts of the country. It succeeds well where the seasons are short, and can be recommended for general planting. Ears six inches long, with eight rows of broad grains.

**HOWLING MOB**—One of the finest second early, large-eared sorts; very productive; white, and of excellent quality. Ears seven to nine inches long, twelve to fourteen-rowed.

Prices for above Garden Corn—Pkt., 5c and 10c; ¼ lb., 25c; 1 lb., 40c; 2 lb., 75c, postpaid. 5 lb., \$1.50, not postpaid.

## CHICORY

**WITLOOF CHICORY OR FRENCH ENDIVE**—Grown for its use as a salad, the blanched head resembling Cos Lettuce in appearance. The seed planted in late spring give parsnip-like roots by late autumn. The roots are then placed in earth where there is some heat, as in the greenhouse boiler room, or a warm cellar. The root then throws out the blanched salad head. Pkt., 5c; oz., 30c.

## COLLARDS

A form of cabbage or kale much grown throughout the South. It produces large leaves and at times a modified head on a tall stout stem. Freezing does not injure but rather improves the quality.

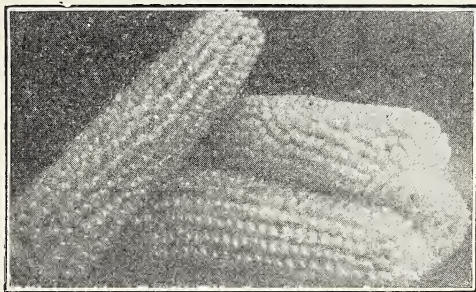
**GEORGIA, SOUTHERN or CREOLE**—We offer the true white or green stemmed sort.

## CORN SALAD

**FETTICUS, or LAMB'S LETTUCE**—This small salad is used during the winter and spring months as a substitute for lettuce, and is also cooked and used like Spinach. In warm weather the plants will mature in four to six weeks. Sow the seed in shallow drills about one foot apart. If the soil is dry it should be firmly pressed over the seed in order to secure prompt germination. On the approach of severe cold weather, cover with straw or coarse litter. Like most salad plants, greatly improved if sown on very rich soil; indeed, the ground can scarcely be made too rich for them. Pkt., 5c; oz., 25c; ¼ lb., 50c.

## CELERIAC

**GIANT SMOOTH PRAGUE**—This vegetable is used for two purposes; the leaves are cut when young and used to flavor soups and meats; the roots are boiled, sliced, cooled, and served as a salad. 125 days. Pkt., 5c; oz., 25c; ¼ lb., 80c; lb., \$2.50, postpaid.

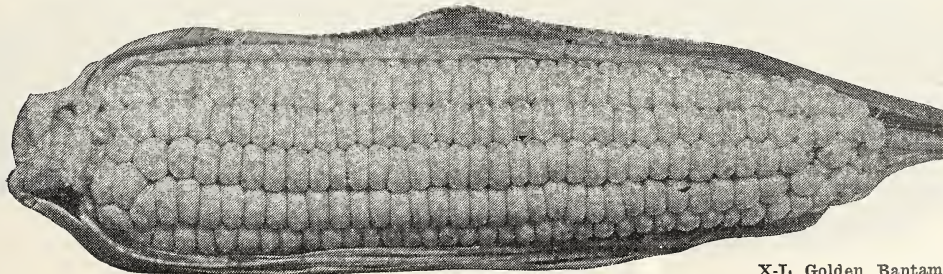


Monarch White Rice

## POP CORN

Does well on sod land, or where clover has been turned down. Plant when danger of frost is over, in hills 3 to 4 feet apart each way, leaving three to four stalks to the hill. Cultivate thoroughly but shallow. Use 4 pounds to the acre.

**MONARCH WHITE RICE**—Everybody knows the old variety name White Rice. Our strain is an improvement, with large ears, more abundantly produced. The grains are sharply pointed. Handsome ear. Pkt., 5c and 10c; ¼ lb., 15c; ½ lb., 25c; 1 lb., 35c, postpaid.



X-L Golden Bantam

## "X-L" HI-GERMINATING CARROTS

**CULTURE**—Sow as early as the ground is in working order in rows 15 to 18 inches apart, covering the seed about an inch, and be sure to press the soil firmly over the seed, as it takes some time to grow, and should be kept moist. When well up thin to four inches apart in the row.

**DANVER'S HALF LONG**—A smooth, well-formed carrot, which grows to medium size, tapering to a point. Flesh orange color.

**STIMULANT**  
Makes a  
**WONDER GARDEN**



Samples of Treated Carrots

These exceptionally choice and tender carrots were grown from Semesan-dusted seeds and command the top market price.

**OX HEART**—Stump rooted; one of the most valuable varieties either for family use or market; fine flavor and color; very productive.

**CHANTENAY**—Early, scarlet color, stump rooted, broad, thick shouldered, heavy cropper. Fine quality. In shape and appearance it takes a place between the Oxheart and the Danvers Half Long.

**IMPROVED LONG ORANGE**—Excellent for stock or table use; roots deep orange.

Price for above Carrots—Pkt., 5c; oz., 15c; ¼ lb., 35c; 1 lb., \$1.00, postpaid.

## CRESS

Splendid for salad, garnishing. Sow seed one foot apart in open ground. Sow often for succession, as it soon runs to seed. Water Cress requires a stream of running water, ditch or pond, in which it will grow without care, except at first keeping weeds from interfering with it.

**EXTRA CURLED OR PEPPER GRASS**—The leaves of this small salad are much frilled or curled, and are used for garnishing. Pkt., 5c; oz., 15c; ½ lb., \$1.00, postpaid.

**TRUE WATER**—A fair growth may be obtained in soil which is kept wet but does best when grown along moist banks or in tubs in water-covered soil. The seed is usually sown and lightly covered in gravelly, mucky lands along the borders of small, rapid streams. The plants will need no subsequent culture, as under favorable conditions they increase very rapidly by self-sown seed and extension of the roots. Pkt., 10c; ½ oz., 40c; 1 oz., 75c; ¼ lb., \$2.25, postpaid.

DO NOT FORGET to include a few seeds for your poultry. You can cut your feed bill one-half and increase the egg production. Order Sunflower Seed, Mangel Wurzel Poultry Beet and Chicken Lettuce.

## "X-L" HI-GERMINATING CUCUMBERS

One ounce to 50 hills; 2 pounds per acre.

**CULTURE**—Cucumbers succeed best in warm, rich, sandy loam. Plant when all danger of frost is past, in hills about 4 feet apart each way, the hills should be previously prepared by mixing thoroughly with the soil of each a shovelful of well-rotted manure; sow for pickling from the middle of June to the middle of July.

**IMPROVED WHITE SPINE**—Thick, straight, smooth, shiny dark green; a general favorite for market or home.

**CHICAGO PICKLING**—A good pickling sort, very uniform, productive and good color. We have an excellent strain. 6x2¼ in.

**IMPROVED LONG GREEN**—Not so abundant a bearer as the preceding sorts, though recommended to all who put up their own pickles. Fruit long and slim, not surpassed in quality by any variety.

**THE DAVIS PERFECT CUCUMBER**—An excellent cucumber for both outdoor use and forcing. It is a carefully selected strain of the extra long White Spine type made by a veteran outdoor and greenhouse grower of cucumbers. Its valuable points are length, slimmness and its dark green color. It is a very vigorous sort and resists blight longer than most long sorts.



Chicago Pickling

**EARLY FORTUNE**—The finest market cucumber of the White Spine type. The fruits measure nine inches long and are slightly tapering. The thick flesh is pure white, firm and unusually crisp, with very few seeds.

Price for above Cucumbers—Pkt., 5c; oz., 20c; ¼ lb., 60c; 1 lb., \$1.50.

**A NEW CUCUMBER CALLED "THREE TO THE YARD"**—This is a new variety introduced by Vaughn Seed Co. It has so many advantages over the other varieties that we feel that it will soon become the leading variety. Very early bearing long firm plants from 7 to 12 inches in length. The fruit is green to the ends or tip, solid, crisp and of excellent flavor. We recommend this variety to you. Per pkt., 5c; oz., 30c; ¼ lb., 90c; 1 lb., \$3.00.



The Davis Perfect

## EGGPLANT

Ounce will produce 100 plants.

**CULTURE**—Sow in hotbeds very early in spring, and transplant when 2 inches high into a second bed or into small pots. If that is not done, thin to 4 inches apart. Do not plant out till the weather becomes perfectly settled and warm. Cool nights or wet weather will check them.

**NEW YORK IMPROVED**—A leading market variety; fruit large, oval; very productive. Price, Pkt. 5c; oz., 50c; ¼ lb., \$1.75, postpaid.



New York Improved

## ENDIVE

**CULTURE**—Sow the seed during August, September and as late as October. For late spring and summer use, plant in open ground during February and March. Requires 60 days to mature the crop. A mighty fine salad crop for your garden.

**WHITE CURLED**—A splendid variety, leaves curled, does not need to be tied up to bleach.

**GREEN CURLED**—A hardy, vigorous-growing variety with bright, deep green leaves. Highly esteemed, and much used for salads.

Price: Pkt., 5c; oz., 20c; ¼ lb., 50c; 1 lb., \$1.25, ppd.

## GARLIC

A bulbous-rooted plant with strong, penetrating odor, but much esteemed by some for flavoring soups, stews, etc. We frequently receive orders for garlic seed, but supply the bulbs only. Prepare the ground the same as for onions and plant the bulbs in drills eight inches apart and four inches apart in the rows; cover two inches deep. When the leaves turn yellow, take up the bulbs and dry in the shade and lay them up in the loft as you would onions. Bulbs, ¼ lb., 20c; 1 lb., 65c, postpaid.

## HERB SEEDS

**CULTURE**—Sow seeds in shallow drill a foot apart, when up thin out and transplant a few inches apart.

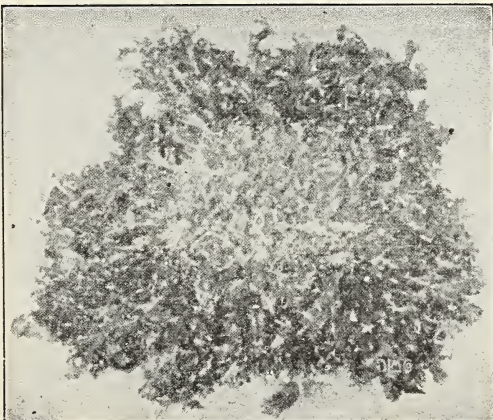
**ANISE**—Used for garnishing, seasoning and for cordials. Pkt., 10c.

**DILL, MAMMOTH**—Used for flavoring pickle.

**MARJORAM, SWEET**—Used in seasoning meats.

**ROSEMARY**—The leaves are used for seasoning. Pkt., 10c.

**SAGE, BROAD-LEAVED**—A popular flavoring plant.



White Curled Endive

**SAVORY, SUMMER**—Used for flavoring, especially for boiled beans.

**THYME**—Used for seasoning. Excellent for making a tea for nervous headaches.

**CARROWAY**—Used for flavoring and stuffing.

**PRICE**—Pkt., 10c, postpaid.

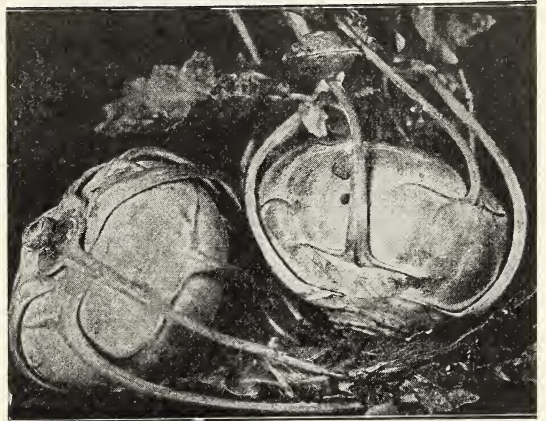
**DILL SEEDS FOR SOUPS AND FLAVORING**—We have a quantity of good clean seed of low germination that is unfit for planting. Price ¼ lb., 25c postpaid.

## KALE

**PLANTING DIRECTIONS**—1 oz. for 5,000 plants; 2 oz. for an acre.

Cultivation is similar to cabbage. Very hardy and used mostly during the winter. The leaves are best after touched by frost and may be left during winter. Sow in May in a rich, light soil, in rows 2½ ft. apart and thin to 2 inches in the row, or sow in boxes or frames and transplant. Cultivate often.

**DWARF CURLED SCOTCH**—A finely curled dwarf spreading variety; very hardy and used extensively for greens. Planted largely in the South for shipping; also used for the garden and for garnishing. Leaves are long and an attractive green. Pkt., 5c; oz., 20c; ¼ lb., 60c; ½ lb., \$1.00; 1 lb., \$1.50.



Early White Vienna

## KOHL-RABI

**CULTURE**—A peculiar vegetable belonging to the cabbage family and forming a turnip-shaped bulb above the ground which is used in the same manner as turnips. For garden cultivation, give same treatment as cabbage. Sown in June or July for fall use.

**EARLY WHITE VIENNA**—A very satisfactory variety; of good quality. Pkt., 5c; oz., 25c; ¼ lb., 60c; 1 lb., \$1.75, postpaid.

## LEEK

**PLANTING DIRECTIONS**—One third ounce to 100 ft. row; 5 lbs., to one acre.

Similar requirements as for Onions. Sow early in April in rows 1 ft. apart, covering one inch. Transplant or thin to 6 inches apart in row. When transplanting set the plants deep so that the bottom will be bleached.

**LONDON OR AMERICAN FLAG**—A large variety of mild flavor. Grows tall and thick and of fine white color. Always popular with market gardeners, commanding a ready sale. Pkt., 5c; oz., 20c; ¼ lb., 75c, postpaid.



London Leek

## SOUP PLANTS

Fresh vegetables for soup stocks are one of the luxuries of the home garden. Besides Parsley, Parsnips and Carrots, Leek—the Scotch standby—should be tried. The tops of the Celeriac furnish a fine celery flavor as a by-product to the roots.

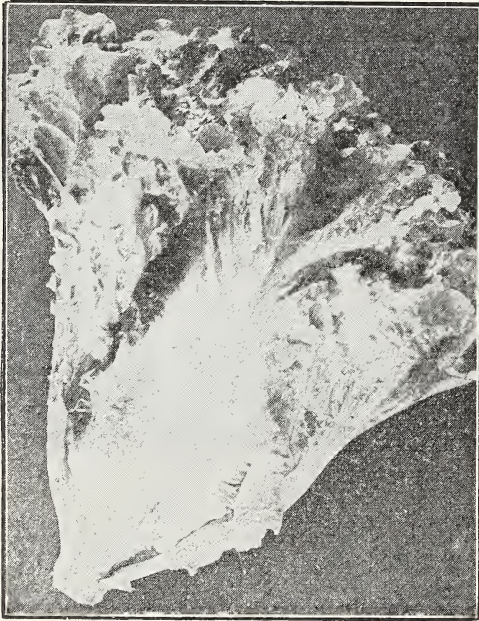
## "X-L" HI-GERMINATING LETTUCE SEED

**CULTURE**—For quality, lettuce requires quick growth; that means rich soil, plenty of water and clean and thorough cultivation to have crisp and tender heads. Make your first plantings in boxes or hotbeds and harden by exposure; later plant outside and transplant 8 to 12 inches apart in 18-inch rows. Sowings may also be made where the plants are to grow and thinned out. The curled varieties sown thickly make a beautiful border, the rows being thinned out by pulling for use as wanted. For a constant supply, plant every three weeks; lettuce may be had all seasons of the year. For fall use, plant in July and August; plant the hardy kinds in September.

### LEAF VARIETIES

**GRAND RAPIDS FORCING**—The favorite loose leaved forcing lettuce, and fine for early planting outside in this section. The leaves are light green, blistered and crumpled, with heavily fringed borders. Pkt., 5c; oz., 20c; ¼ lb., 55c; 1 lb., \$1.50, postpaid.

**EARLY CURLED SIMPSON**—Loose heads, curly, and very early. Pkt., 5c; oz., 20c; ¼ lb., 45c; 1 lb., \$1.25, postpaid.



Early Curled Simpson

**BLACK SEEDED SIMPSON**—Light colored heads of good size. Pkt., 5c; oz., 20c; ¼ lb., 45c; 1 lb., \$1.25, postpaid.

**PRIZEHEAD**—A crisp and tender loose-leaved non-heading variety, deservedly popular. Color, medium green, shading to brown. Pkt., 5c; oz., 20c; ¼ lb., 45c; 1 lb., \$1.25, postpaid.

### HEADING VARIETIES

**NEW YORK or WONDERFUL**—Large, solid heads; inside very white. Pkt., 5c; oz., 30c; ¼ lb., 90c; 1 lb., \$3.00, postpaid.

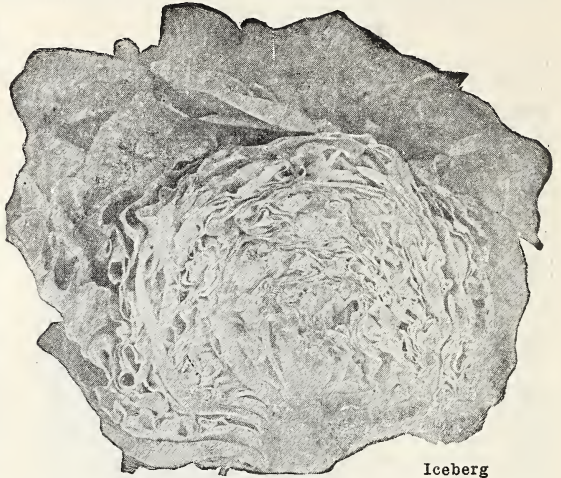
**HANSON**—An excellent plain leaf with large, solid heads. Fine flavor. Tender and crisp. Pkt., 5c; oz., 25c; ¼ lb., 75c; 1 lb., \$2.50, postpaid.

**ICEBERG**—It is a strictly cabbage variety; crisp rather than buttery; large and late. Head is globular, extremely hard and well blanched. Leaves are slightly blistered, crumpled and twisted. Pkt., 5c; oz., 25c; ¼ lb., 75c; 1 lb., \$2.90.

**WHITE PARIS COS**—Smooth, long, narrow upright leaves and blanches nicely when tied up; color dark green; quality fine; self-folding. Pkt., 5c; oz., 25c; ¼ lb., 75c; 1 lb., \$2.50, postpaid.

### CHISHA, OR CHICKEN LETTUCE

You have doubtless read in the poultry journals that lettuce is an excellent feed for chickens. In this Chisha



Iceberg

Lettuce you will find a feed that yields as much or more than other green feeds. It is economical to grow this strain, for when cut it resumes its growth rapidly and can be cut again and again; or the leaves can be pulled off each stem like the Jersey Kale. The yield is extremely heavy. Chisha, or Chicken Lettuce does not make a head, but sends up a stout stalk, 3 to 4 feet high just loaded with leaves. Pkt., 5c; oz., 20c; ¼ lb., 45c; 1 lb., \$1.50.

## "X-L" HI-GERMINATING MUSTARD

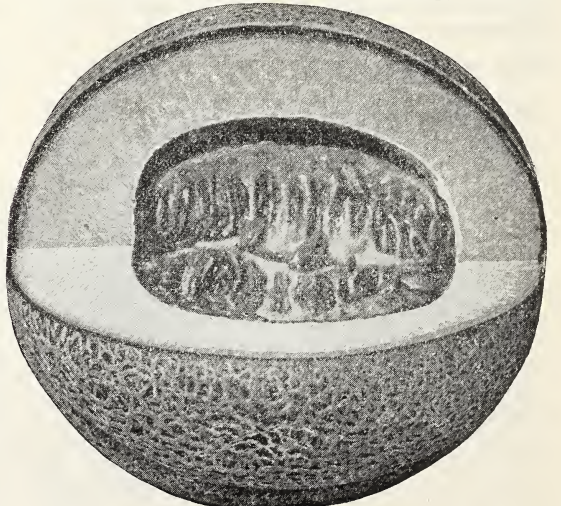
**CULTURE**—Sow thickly during early spring in shallow drills, and press the earth well down. For fall salad, sow in September, or in frames or boxes during winter. Needs to be gathered before it goes to seed.

**SOUTHERN GIANT CURLED**—Leaves large, light green with a tinge of yellow; much crimped and frilled at edges. Used for flavoring salads, etc. Pkt., 5c; oz., 20c; ¼ lb., 60c; ½ lb., \$1.00; 1 lb., \$1.50, postpaid.

## "X-L" HI-GERMINATING HARDY MUSKMELONS (CANTALOUPE)

**CULTURE**—Muskmelons delight in moderately rich, warm, mellow loam. The seed should be planted in the spring upon the arrival of settled warm weather. Plant seeds 1 inch deep in hills, 4 to 6 feet apart each way, and as soon as the plants begin to run remove all but four of the most likely ones.

**OSAGE, or MILLER'S CREAM**—A standard high quality main crop melon; fruit dark green, slightly ribbed and well covered with a gray netting; flesh rich



Osage or Miller's Cream

**MUSKMELONS OR CANTALOUPE—Continued**

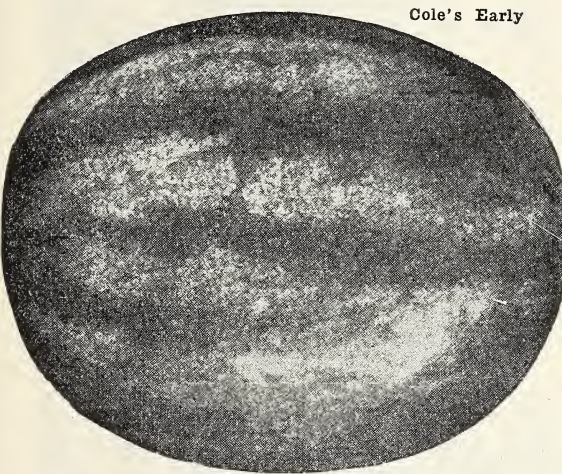
orange-salmon, exceedingly thick and very sweet. Pkt., 5c; oz., 20c; ¼ lb., 50c; 1 lb., \$1.75, postpaid.

**EXTRA EARLY HACKENSACK**—Fruit weighs four to six pounds each. The melons are round, heavily ribbed; skin is green and thickly netted; flesh is light green, of delicious flavor, rich and sugary. The earliest of all large netted melons. Pkt., 5c; oz., 20c; ¼ lb., 50c; 1 lb., \$1.75.

**ROCKY FORD**—The flesh is green, thick, with small cavity; very sweet and has that spicy flavor that makes a cantaloupe so delicious. The melons are oval-shaped, slightly ribbed, well covered with fine netting, and are uniform in size and shape. Pkt., 5c; oz., 15c; ¼ lb., 35c; 1 lb., \$1.25, postpaid.

**HONEY DEW**—It is as sweet as honey and has the mingling of several flavors—pineapple, banana and vanilla predominating. The average size of the melon is six inches in diameter and seven to eight inches in length, weighs five to six pounds. The skin is smooth with an occasional net, is a creamy yellow when ripe. The flesh is very thick, and very fine grained. The seed cavity is very small. Pkt., 5c; oz., 15c; ¼ lb., 35c; 1 lb., \$1.25, postpaid.

Cole's Early



## "X-L" HI-GERMINATING WATERMELON SEEDS

**CULTURE**—Prepare hills 8 or 10 feet apart each way by working in thoroughly rotted manure, or poultry droppings—rich ground gives the plants a good start before insects attack them. When the ground is warm plant 6 or 8 seeds to the hill, covering an inch deep and, when well up, thin out, leaving three strong plants to each hill. Do not grow near pumpkins and gourds. Use the same insect remedies as recommended for cantaloupes.

**COLE'S EARLY**—Very hardy, a sure cropper and extremely delicate in texture of flesh, which is of dark red color, rind is thin and extremely brittle, hence not desirable for shipping purposes, but possessing all the other most desirable features. We highly recommend it for home use.

**KLECKLEY'S SWEETS OR MONTE CRISTO**—Unsurpassed for home use or near markets. Vine vigorous and productive; fruit of medium to large size, oblong, tapering slightly towards the stem end, dark green, often showing fine russeting. Flesh very bright, rich red, exceedingly sweet. So crisp and tender that it will not stand shipping, the fruit bursting open if subjected to even a slight jar, or when the rind is penetrated with a knife.

**HARRIS EARLIEST**—The best of the extra early sorts. Fruit slightly oval with irregular mottled stripes of light and dark green. Flesh bright red, sweet and tender. A desirable variety where the season is short. It is hardy, productive and the largest of the early kinds.

Prices for above Melon Seed—Pkt., 5c; oz., 15c; ¼ lb., 35c; 1 lb., \$1.00.



Extra Early Hackensack

**MUSHROOMS**

Mushrooms may be grown by anyone having a supply of fresh manure and a shed or cellar, or under a greenhouse bench where a temperature of 50 to 60 degrees is evenly maintained. They make a most profitable crop when successfully grown, and the American market is the best in the world for this most delicious of foods. Full cultural directions with every order.

**PURE CULTURE SPAWN**—Requires one brick of spawn for about nine square feet of bed. One brick, 40c; five bricks, \$1.75.

**ONION SETS**

Eat More Onions at All Times

Medical authorities agree there is no vegetable more healthy than onions and advise the free use of onions both green and cooked. It is even claimed they are a preventive of Influenza and Grippe. Buy Onion Sets freely, plant double the usual quantity and replant several times in the early spring and summer so you will have plenty of onions to eat all months in the year.

**YELLOW**—Grown from seed of Strasburg or Yellow Danvers, either of which we can furnish. Yellow is the standard color for onions in many of the largest markets.

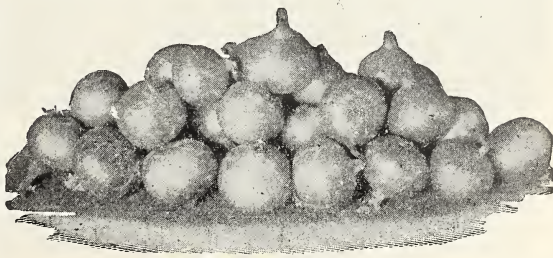
**RED**—Grown from the Red Weathersfield variety and will produce marketable onions several weeks earlier than seed. For green onions they are also very desirable.

**WHITE**—Grown from White Portugal seed. White sets produce the finest early green onions and no garden should be without them.

**JAPANESE or EBENEZER**—A yellow variety of great merit. A heavy yielder and good keeping Onion. Does not run to seed readily.

**PREPAID PRICES**

		Qt.	4 Qts.
Yellow	-----	\$0.30	\$0.95
Red	-----	.30	.95
White	-----	.35	1.10
Ebenezer	-----	.35	1.10



Our Sets are uniform size

## "X-L" HI-GERMINATING ONION SEED

**CULTURE**—Sow in drills one foot apart and cover about one-third of an inch, treading or rolling after sowing so that the hot, dry atmosphere may not destroy the sprouting seed. When three inches high thin to two inches apart. Stir the ground freely without disturbing the young plants and keep free from weeds.

### YELLOW VARIETIES

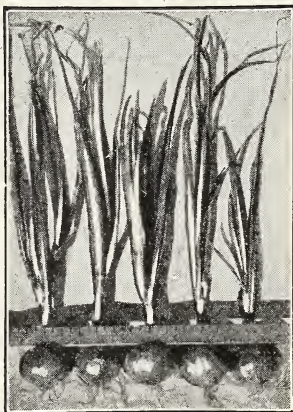
#### YELLOW GLOBE DANVERS

—This fine onion is of large size. An early and abundant cropper. Bulbs very thick, flat or slightly convex bottoms, full oval top with small neck and rich brownish yellow skin.

**STIMUPLANT**  
Makes a  
**WONDER GARDEN**

#### PRIZETAKER

Grows to an immense size and for fall marketing is unexcelled. Although of such great size, it is very hardy and a fair winter keeper, as it ripens up hard and firm; very fine grained and of mild delicate flavor. The outside skin is rich yellow while the flesh is white. To get the best results from this onion the seed is sown in beds and transplanted. It will, however, make a good crop if sown in the ordinary way.



Onions From Semesan-Treated Seeds

These representative onions were pulled at random from an eighty acre field grown in one season from Semesan-treated seeds.

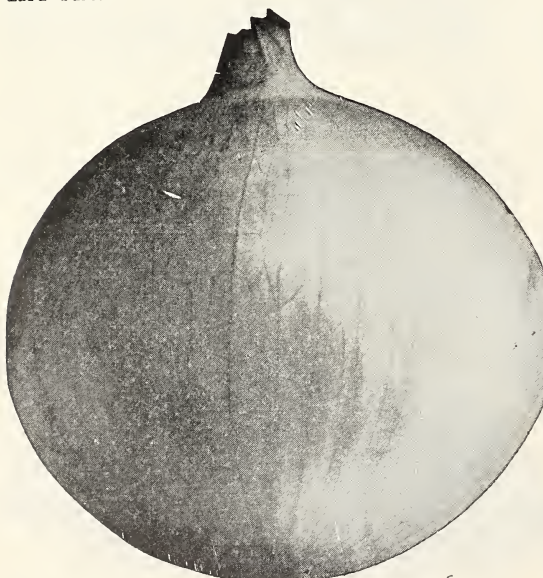
### WHITE VARIETIES

#### SOUTHPORT WHITE GLOBE

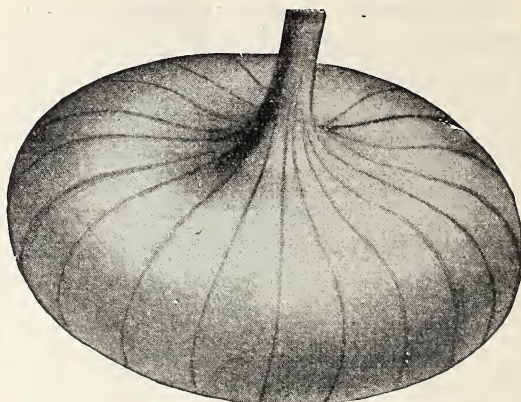
This grows to a very large size and is a perfectly globe shaped onion. Color is clear pure white. This variety is used by the Chicago market gardeners for bunching.

**WHITE WELCH**—A very hardy perennial variety of onion, used only for bunching or early green onions. Seed may be sown in late summer or early fall for early spring onions.

**WHITE PORTUGAL**—American Silver Skin. This is the best sort to sow—for onion sets or for pickling. When sown thickly for either it makes a small, round, hard bulb.



Prizetaker



White Portugal

### RED VARIETIES

**LARGE RED WETHERSFIELD**—We have a very fine and select strain of this sort. Color is deep purplish red, flesh white moderately grained and very firm. Yields an enormous amount per acre, and is one of the best winter keeping onions.

**SOUTHPORT RED GLOBE**—This is a fine keeper. Large size and considered one of the best red onions. Flesh is fine grained, very mild and tender.

### BROWN VARIETY

**AUSTRALIAN**—Of medium size. Wonderfully hard and solid, the bulbs are most attractive for market, both as to form and appearance. The color of the skin is a clear amber brown. Specially noted as a long keeper as it keeps well into spring and much longer than any other varieties. Pkt., 5c; oz., 25c; 2 oz., 45c; ¼ lb., 75c; ½ lb., \$1.25; 1 lb., \$2.25.

### POSTPAID PRICES ON ONION SEED

	Pkt.	Oz.	¼ lb.	1 lb.
Y. Globe Danver	5c	20c	75c	2.90
Prizetaker	5c	20c	75c	2.90
Southport White Globe	5c	25c	90c	3.35
White Welch	5c	25c	90c	3.50
White Portugal	5c	25c	80c	3.00
Red Wethersfield	5c	20c	80c	3.00
Southport Red Globe	5c	20c	80c	3.00
Australian Brown	5c	20c	50c	1.50

## "X-L" HI-GERMINATING GARDEN PEAS

HAND PICKED

**CULTURE**—Sow as early as the ground can be worked, and again every ten days, for succession, up to the first of June, after which there is danger from mildew. Sow in single or double rows, from two to three feet apart, according to the different heights, about an inch apart in rows, and four inches deep. Hoe often and keep the ground clean and fine. The tall sorts can be made to bear more freely by pinching in. The dwarf varieties may be grown in beds like Bush Beans, with rows about the same distance apart. Peas marked thus (\*) are wrinkled.



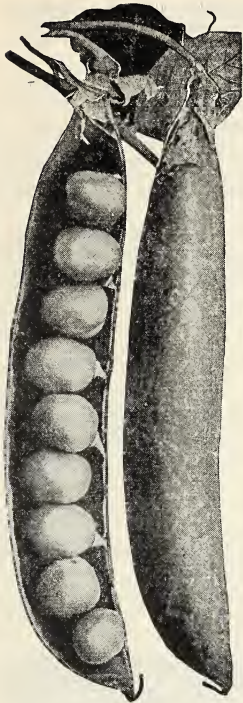
### EARLY AND EXTRA EARLY DWARF PEAS

**\*BLISS AMERICAN WONDER**—An old standard, very dwarf, extra early sweet pea, growing about one foot high.

**\*LAXTONIAN**—A large-podded dwarf variety, on the order of Gradus, with equally large pods and growing only 16 inches in height. Pkt., 10c; ½ lb., 25c; 1 lb., 40c, postpaid.

**\*GRADUS, or PROSPERITY**—A standard early, large podded variety, very popular with private and market gardeners; vine about 2½ feet in height, stout and heavy, producing large, well filled, pointed pods.

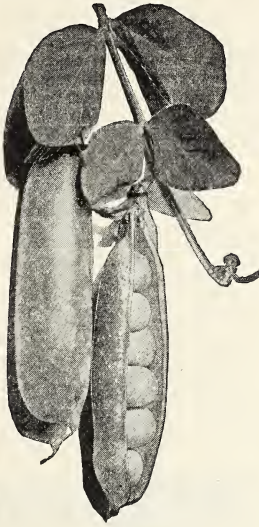
**LITTLE MARVEL**—An extra fine dwarf sweet pea. Pods somewhat larger than Nott's Excelsior and same season. A fine variety for either private or market garden. Height fourteen inches.



Little Marvel

**\*McLEAN'S LITTLE GEM**—Similar to Premium Gem though later and somewhat taller growth.

**ALASKA**—A well known, hardy, very early variety; popular with gardeners as a first early pea.



Alaska

Prices for above varieties, pkt., 10c; ½ lb., 25c; 1 lb., 40c; 5 lbs., \$1.60, postpaid. Not prepaid. ½ lb., 20c; 1 lb., 35c; 5 lbs., \$1.40.

### MAIN CROP PEAS

**DWARF TELEPHONE**—Vines eighteen to twenty inches high, with rather coarse foliage, medium light green, bearing pods, broad, straight and about four inches long. Pale green in color and well filled with peas of excellent flavor.



**TALL TELEPHONE**—4 feet. An old well known variety. One of the best of the late maturing sorts. Pods are large, containing 8 to 10 peas of good quality and flavor.

**MAMMOTH MELTING SUGAR** (Edible Pods)—This is a tall variety, bearing large, flat, brittle pods, which are entirely stringless which are cooked like string beans.

Prices for above Garden Peas—Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 5 lbs., \$1.60, postpaid, not prepaid, ½ lb., 15c; 1 lb., 30c; 5 lbs., \$1.40.

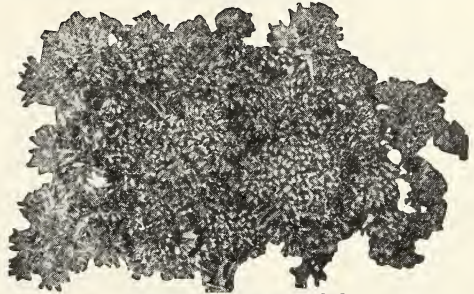
## "X-L" HI-GERMINATING PARSNIP SEED

**PLANTING DIRECTIONS**—1 oz. to 100 ft. row; 8 lbs. to acre.

Requires a deep rich, sandy soil. Sow early in spring in rows 1½ to 2 feet apart and thin to 6 inches apart in the row. Cover seeds three-fourths inch. Seeds germinate slow. Parsnips are hardy and can be kept outside all winter.

**HOLLOW CROWN**—An excellent variety. The roots are long, smooth, with a deep hollow crown, tender and sweet; a heavy yielder; cooks evenly to the center which is tender and soft like the outside portions. Pkt., 5c; oz., 20c; ¼ lb., 40c; ½ lb., 70c; 1 lb., \$1.00, postpaid.

**IMPROVED GUERNSEY**—A fine half long variety, with smooth roots; fine quality; recommended highly for home garden and market use. Pkt., 5c; oz., 20c; ¼ lb., 40c; ½ lb., 70c; 1 lb., \$1.00.



Champion Moss Curled

## "X-L" HI-GERMINATING PARSLEY SEED

**PLANTING DIRECTIONS**—1 oz. to 150 ft. row; 5 lbs. to acre.

Parsley will do well in any garden soil but thrives best in a rich, mellow loam. The seed germinates slow and it is well to soak the seed in warm water before seeding. Sow either in boxes or under glass and transplant to open ground in rows 1 to 1½ feet apart and 4 to 6 inches between plants in the row. In fall take up a few plants and keep in boxes inside.

**HAMBURG OR TURNIP-ROOTED**—This variety is grown principally for its roots; highly esteemed for flavoring soups, stews, etc.

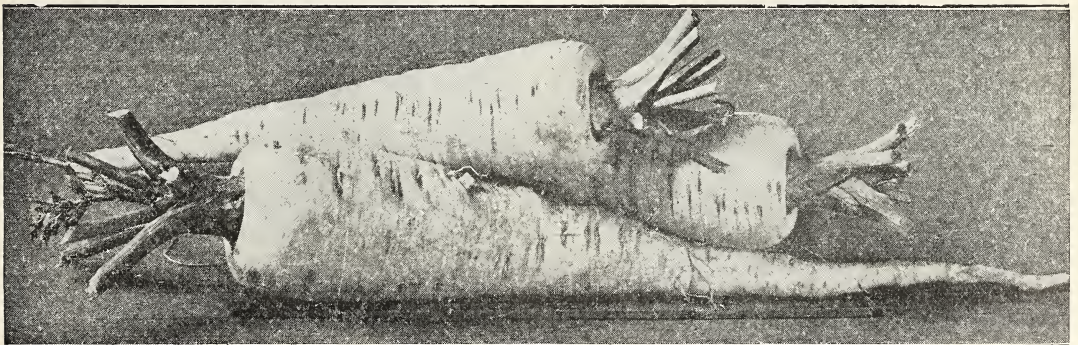
**CHAMPION MOSS CURLED**—Leaves very large, very tender, dark green, crinkly and curled. Can be used either for out-of-doors or greenhouse culture.

Parsley Seed Prices: Pkt., 5c; oz., 20c; ¼ lb., 50c; 1 lb., \$1.40, postpaid.

### MUSHROOM SPAWN

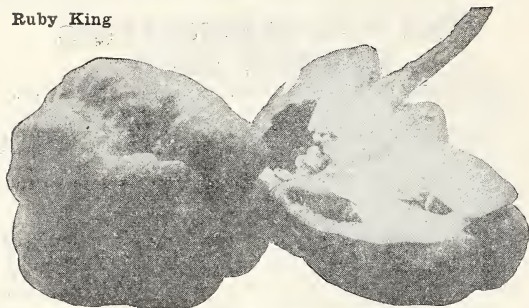
Lambert's Direct Pure Culture Spawn. Produced from tissue cultures invigorated by frequent reference to sport stock. Bricks weigh one pound and will spawn eight square feet of beds.

Leaflet—"How to Grow Mushrooms" free for asking. Per brick 40c; 5 bricks, \$1.75 postpaid.



Hollow Crown Parsnips

Ruby King



## "X-L" HI-GERMINATING PEPPERS

One ounce of seed for 1,500 plants.

**CULTURE**—Peppers are more tender than most vegetables. The seed should be sown in a hotbed, cold-frame, or if no other convenience, a box in the window, and transplanted about the last of April. Warm, mellow soil, well fertilized, should be used.

**CALIFORNIA GIANT**—The latest and without question the finest pepper yet introduced. It has appropriately been styled the "Salad King" but it is not in salad form alone that it excels, for there are other forms in which to prepare it. The seeds having been removed it may be stuffed, either with dressing as used in fowl or meat such as ground steak with onions or other seasoning. Sliced and fried as egg plant, it is a delicious dish, or it may be eaten raw, it is so mild. X-L California Giant is the earliest, sweetest, and largest of all peppers. Pkt., 15c; ¼ oz., 60c; ½ oz., \$1.00; 1 oz., \$1.90.

**LARGE BELL or BULL NOSE**—A very large sort of inverted bell-shape, suitable for filling or for a mixed pickle. Flesh thick, hard and less pungent than most other sorts.

**PIMENTO**—A very thick-fleshed, smooth, mild, crimson variety, much used for salads, fruit pendent.

**LONG RED CAYENNE**—Slender fruit; green, turning scarlet. Very pungent and hot.

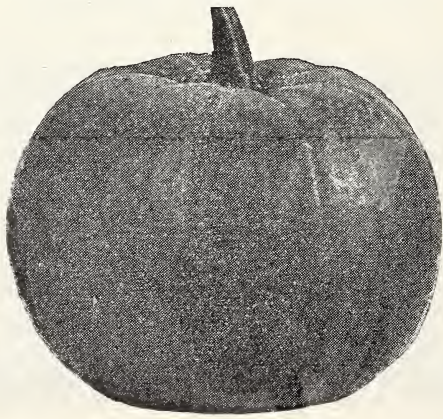
**RUBY KING**—A pepper of large size, well known and much esteemed by truck growers. When ripe, its color is a beautiful ruby red, very attractive and of good quality.

Prices for Pepper seeds—Pkt., 5c; oz., 40c; ¼ lb., \$1.25, postpaid.

## "X-L" HI-GERMINATING PUMPKIN

**CULTURE**—The common practice is to drop two or three seeds in every second or third hill in the corn-field, but if cultivated on a large scale the seed should be sown in hills eight feet apart each way, four plants to each hill, and otherwise treated in the same manner as melons or cucumbers.

**SUGAR OR PIE**—A rather small, but handsome variety. Shape, round; skin deep orange colored; flesh fine grained, sweet-flavored; superior for pies.



Sugar or Pie

**JAPANESE PIE**—Shaped somewhat like the Cushaws and grows to a large size; skin deep green with dark stripes; flesh deep yellow and of high quality; seeds sculptured like Chinese letters.

**CONNECTICUT FIELD**—The hardiest of all pumpkins; cultivated mainly for stock-feeding.

**MAMMOTH FORTION**, (King of the Mammoth)—The flesh and skin are of a bright golden yellow color. Flesh fine grained and of excellent quality. This enormous variety has been grown to weigh 200 pounds.

Prices on above varieties—Pkt., 5c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.25, postpaid.

**KENTUCKY FIELD**—Large, round, flattened fruits, much ribbed and creamy-buff in color; flesh is salmon color and very deep, of fine quality and one of the best for canning. Also grown extensively for stock in the South. Pkt., 5c; oz., 10c; ¼ lb., 25c; 1 lb., 65c; oz., 5 lbs., \$2.75, postpaid.

## DISEASE-FREE POTATOES

Semesan Bel, prepared especially for the seed disinfection of white and sweet potatoes, in addition to its advantages of dust application, is the only disinfectant which can be applied as an instantaneous dip. Semesan Bel instantaneous dip is sweeping the country and rapidly displacing the formaldehyde and bichloride treatments.

Semesan Bel, by controlling diseases which sap the vitality of seed potatoes, gives the seeds a chance to germinate quickly vigor from which grow increased yields of clean, healthy plants and tubers. Prices: 1 lb. \$1.75, 5 lbs., \$8.00, 25 lbs., \$37.50, 50 lbs., \$72.50, 100 lbs. \$140.00. Add postage.

**SEMECAN BEL**  
MADE BY DUPONT  
Makes Seed Potatoes Healthy



White Potatoes Grown from Untreated Seeds

These potatoes represent the yield from an ordinary plot of seed potatoes, and consisted of 67 per cent Grade No. 1, 25 per cent of No. 2's and 8 per cent of No. 3's. Compare with next illustration.



Semesan Bel Doubled Yield and Improved Quality

These potatoes were grown from an equal number of seed pieces as those illustrated in the previous photo. The Semesan Bel treatment more than doubled the yield and increased the proportion of No. 1 potatoes to 77 per cent, reduced the No. 2 Grade to 18.5 per cent and No. 3's to 4.5 per cent.

Send for FREE Potato Booklet

## POTATOES

Due to the short crop of potatoes grown in Montana this past season, our supply of select stock is very limited. However, we shall be in position to furnish the following varieties: Early Ohio, New Early Victor, Bliss Triumph, and Netted Gems. If interested write for opening prices at planting time.

## RHUBARB OR PIEPLANT

**CULTURE**—Sow in drills an inch deep, and thin out the plants to six inches apart. Transplant the young plants, setting them four to six feet apart each way. The stalks should not be plucked until the second year, and the plant never be allowed to exhaust itself by running to seed.

**VICTORIA OR MAMMOTH**—Very large; the finest cooking variety. Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 55c; ½ lb., 85c; 1 lb., \$1.50, postpaid.

## "X-L" HI-GERMINATING RADISH SEED

There is no Comparison between Southern Grown Radish and our Northern Grown Stock.

**EARLY SCARLET GLOBE** (Vaughn's Extra Select Stock)—Without doubt the best forcing radish obtainable. Ideal for the market gardener on account of its early forcing habits, and does equally well when planted outside. Bright scarlet roots of uniform size, globe shape and with very small top. Pkt., 5c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.30, postpaid.

**CRIMSON GIANT**—A variety extraordinary in that while growing to an unusually large size, it is always tender, crisp and of mild flavor. It remains in perfect condition a remarkably long time, and unlike other forcing varieties, does not become pithy even when twice their size in diameter.

**SPARKLER RADISH** (The Leader for Market)—Color is scarlet and white, extremely quick to mature, being ready for the table in 20 days from planting. Valuable for forcing under glass, as well as for the open. Skin very smooth, and its color gives it an appetizing appearance. Selected stock seed. Pkt., 5c; oz., 15c; ¼ lb., 50c; 1 lb., \$1.50.

**EARLY SCARLET TURNIP**—Round, turnip-shaped. Rich scarlet color, white flesh, crisp and tender. Grows quickly. Popular for early outdoor planting.

**SCARLET TURNIP WHITE TIPPED**—One of the best early Radishes for the home garden and a great favorite in large markets for early planting outdoors. The roots are nearly round, slightly flattened on the underside. The color is very bright, deep rose-carmine scarlet with a distinctly white tip.

**CINCINNATI MARKET or LONG BRIGHTEST SCARLET**—An early variety, splendid for forcing or open ground. The tops are small and they stand close in the row, straight and smooth—clear bright red in the color—flesh very tender. 35 days. Pkt., 5c; oz., 20c; ¼ lb., 40c; 1 lb., \$1.00, postpaid.

**FRENCH BREAKFAST**—Earliest, most handsome, tender and crisp. Deep glossy crimson with white tips.

**WHITE STRASBURG**—A large medium long sort, with heavy shoulders tapering gradually to base. Flesh and skin pure white. Solid, fine quality. Resists drought.

**THE ICICLE**—A new introduction of the Long White; beautiful ivory white color; fine slender form, quality excellent; very early; fine for market.

### WINTER VARIETIES

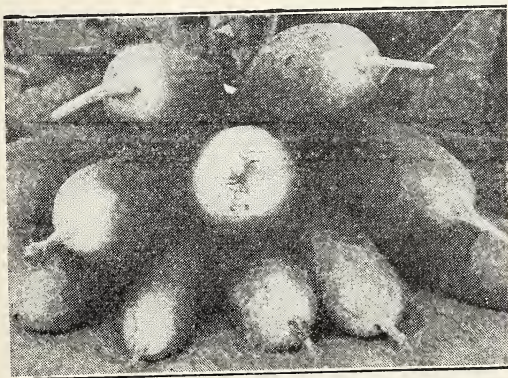
Seed for winter radishes should be sown about the first of August in rich, warm, sandy loam, in rows about twenty inches apart, covering half an inch deep. When well up thin to three inches apart in the row and give frequent cultivation. For winter use the roots should be pulled and packed in damp sand and stored in a cool cellar.

**CHINESE ROSE**—Half-long, flesh pink, solid.

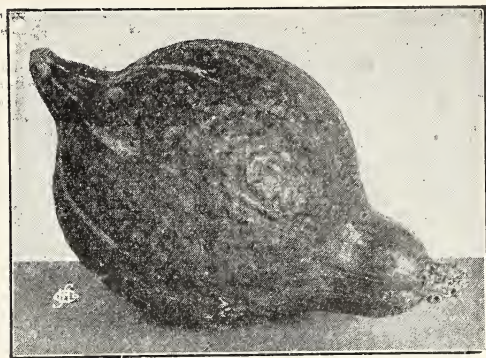
**LONG BLACK SPANISH**—Roots black. Round Black Spanish—Globe shaped.

### RADISH SEED PRICES

Prices on radish seed except where otherwise noted. Pkt., 5c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.10, postpaid.



Scarlet Turnip White Tipped



Golden Hubbard

## "X-L" HI-GERMINATING SQUASH

**CULTURE**—Plant when danger of frost is past and the ground has become warm. For bush varieties the hills may be five feet apart but allow six to eight feet for trailing varieties. Plant 6 or 8 seeds to the hill and thin to three plants when they begin to vine.

**MAMMOTH WHITE BUSH**—An early, round, flat squash; color clear white, handsomely scalloped. Called Patty Pan in the South. Largely planted in every section of the country. One of the very best of the early varieties.

**MAMMOTH SUMMER CROOKNECK**—A well-known and standard variety. Grows from 18 inches to two feet in length. The shell is hard and warted and of an attractive bright yellow color. The thick flesh is of good quality.

**GREEN HUBBARD**—A favorite winter squash. Shell dark green and extremely hard. Flesh rich orange; dry and sweet. Splendid for cooking or pies.

**GOLDEN HUBBARD**—This is a very distinct sort, of the shape and general character of the Hubbard, but a little smaller; of rich orange red color, instead of the dark olive green.

**BLUE HUBBARD**—This excellent squash of the Hubbard type is light blue in color, with hard shell and thick, fine grained flesh, which is very tender and by far the best flavored of the winter squash. This variety is very popular in the East, and brings a higher price than any other. We have the true stock.

**SIBLEY OR PIKE'S PEAK**—Large oval fruits tapering at the blossom end; skin smooth and dark olive-green in color; flesh golden-yellow and of very best quality; a winter sort, maturing with Hubbard.

Prices on above squash—pkt., 5c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.40.

**DES MOINES or TABLE QUEEN**—A small, very productive variety of many desirable qualities. It's size is particularly desirable as one squash makes a meal for a hungry person. The thin shell is ribbed and a very dark green in color. The rich golden flesh is very thick and the seed cavity small. A good keeper, the quality is excellent. Pkt., 5c; oz., 20c; ¼ lb., 50c; ½ lb., 85c; 1 lb., \$1.60.

## "X-L" HI-GERMINATING SPINACH SEED

One ounce will sow 200 feet of drill, 10 to 20 lbs. an acre.

**CULTURE**—This is best developed and most tender and succulent when grown in very rich soil. For summer use sow early in spring in drills 15 inches apart, and make successive sowing every two weeks.

**BLOOMSDALE or SAVOY LEAVED**—Of upright growth; leaves curled and crimped, thick and fleshy. Keeps well after cutting. Suitable for fall sowing. Pkt., 5c; oz., 10c; ¼ lb., 20c; 1 lb., 50c; 5 lbs., \$1.75, postpaid.

**NEW ZEALAND**—Yields an abundance of the tenderest Spinach during the hottest months of the year, or in dry, arid localities where the ordinary Spinach runs to seed. The seed is sown where the plants are to stand, in May, or earlier in a hotbed and transplanted, and the plants will continue to yield a supply of good leaves

of excellent quality during the entire Summer, requiring scarcely any attention. Pkt., 5c; oz., 15c; ¼ lb., 35c, postpaid.

**LONG STANDING**—An improved, round seeded strain of excellent merit, having all the good qualities of other sorts and continuing in condition for use much longer. The leaves are smooth and very dark, rich green. Very popular with market gardeners. Pkt., 5c; oz., 10c; ¼ lb., 25c; 1 lb., 75c, postpaid.

**KING OF DENMARK**—The best long-season Spinach, remaining two weeks longer than others before bolting to seed. Plant vigorous and spreading; leaves large, rounded, crumpled and blistered, deep green in color. Pkt., 5c; oz., 15c; ¼ lb., 30c; 1 lb., 65c, postpaid.

## SALSIFY OR OYSTER PLANT

One ounce will sow 150 feet.

A most delicious vegetable. It is used stewed, boiled, or fried, and sometimes as a salad. When cooked it has an oyster flavor. Sow seed from April to May in drills 18 inches apart. Cultivate the same as for Carrots or Parsnips.

**MAMMOTH SANDWICH ISLAND**—True, large and superior; very fine flavor. Pkt., 5c; oz., 25c; ¼ lb., 80c; 1 lb., \$2.75, postpaid.

## TOMATOES

**PLANTING DIRECTIONS**—1 oz., for about 2,000 plants.

Sow inside in boxes or in hotbeds where the temperature is about 65 degrees. Transplant when 3 inches high to 3x3 inches each way. Transplanting will make an abundance of fibrous roots and also stocky plants. Plant outdoors when all danger of frost is past in rows 4 ft. apart and 3 ft. apart in row. Sunny exposure and fairly rich soil is best. Trim off part of foliage to expose tomatoes to the sun.

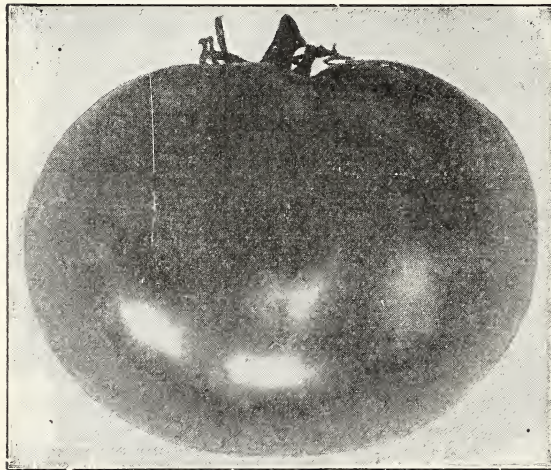
**PONDEROSA**—This is a very large, solid tomato. Color pink, changing to purple. On account of its large size it is suitable to grow for exhibition purposes. It is of good quality, however, and very largely in demand for home gardens. Pkt., 5c; oz., 50c; ¼ lb., \$1.35, postpaid.

**THE NEW STONE**—This is a new improved wilt-resisting strain. Produces a nice, large, very smooth, uniform red tomato. A vigorous grower and very prolific. Pkt., 5c; oz., 75c; ¼ lb., \$2.25, postpaid.

**EARLIANA**—Ripens earlier than any other variety. Solid, very meaty and of exceptionally fine quality. Profitable for market. Pkt., 5c; oz., 35c; ¼ lb., \$1.30, postpaid.

**JOHN BAER**—This variety will produce more bushels of large, smooth, handsome, ripe tomatoes per acre than almost any other variety. Fruit is uniform, of large size, perfectly smooth and regular, of bright scarlet color. Free from cracks and not subject to black rot. One of the best second early crop tomatoes for canning. Pkt., 5c; oz., 50c; ¼ lb., \$1.75, postpaid.

**DWARF CHAMPION**—Fruit of medium size, smooth, attractive pink color. Medium early. Vines do not spread like other varieties. Pkt., 5c; oz., 35c; ¼ lb., \$1.30, postpaid.



Earliana Tomato

**CHALK'S EARLY JEWEL**—We consider this one of the very best early tomatoes yet introduced. Vine vigorous and very productive. Fruit deep scarlet-red. Pkt., 5c; oz., 50c; ¼ lb., \$1.60, postpaid.

**GOLDEN QUEEN**—Fruit large and smooth; color a beautiful golden yellow, sometimes with a slight blush of red, as smooth and well shaped as the best of the red varieties and of superior flavor. Pkt., 5c; oz., 50c; ¼ lb., \$1.75, postpaid.

**GROUND CHERRY**—Small yellow fruit inclosed in a husk. Of peculiar flavor and used for preserves. Pkt., 5c; oz., 35c; ¼ lb., \$1.30, postpaid.

**YELLOW PEAR**—Favorites with all. Pear-shaped and a deep yellow color. Highly valued for preserves or pickles. Pkt., 5c; oz., 35c; ¼ lb., \$1.30, postpaid.

**BONNY BEST**—Vines strong and vigorous, fruit deep scarlet, ripening to stem. Flesh firm. A productive and very desirable early and main crop variety. The most popular forcing variety. Pkt., 5c; oz., 40c; ¼ lb., \$1.20, postpaid.

## "X-L" HI-GERMINATING TURNIP AND RUTABAGA SEED

Postpaid prices on turnip seed except where otherwise noted—Pkt., 5c; oz., 10c; ¼ lb., 30c; ½ lb., 45c; 1 lb., 75c.

### CULTURE

Spring sowings should be made as early as possible, so that the Turnips may make their size before hot weather, otherwise they will become tough and bitter. For spring sowings there is nothing equal to the Milans, the Red Top Globes, Purple Top Strap leaved and White Flat Dutch. For the regular crop, sow in July and August, the salad varieties in August or September. Sow either broadcast or in drills 2 feet apart, cover ½ inch deep, and thin out to prevent overcrowding.



Better and Uniform Turnips  
Semesan-treated turnip seeds yielded a 20 per cent larger crop of the uniform roots shown at the right, which were much superior to the spindly untreated ones at the left.

**EARLY PURPLE TOP MILAN**—The best for Spring sowing. Of handsome appearance; somewhat flattened, white with purple top. Bulb forms very rapidly. Pkt., 5c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.00, postpaid.

**PURPLE TOP STRAP LEAF**—Rapid grower and mild flavor, the most popular variety for early use, either for the table or stock.

**PURPLE TOP WHITE GLOBE**—An early, perfectly globed shape variety of good size and very attractive appearance. The roots are large, white with purple top. The flesh is white, fine grained and tender. They are best for table when about three inches in diameter, but can be grown much larger for stock feeding. Best variety for market gardeners.

**EARLY WHITE FLAT DUTCH**—An excellent garden variety. The best for spring sowing.

**WHITE EGG**—Belong to the class of quick growing fall turnips, and for this purpose should be sown, in this latitude, between August 10 and 25.

**IMPROVED AMERICAN PURPLE TOP**—This is a select strain of the finest yellow-fleshed rutabaga, suitable either for table use or stock; flesh remarkably fine-grained and of a sweet flavor. The bulb grows clean and smooth, with a small top. An immense yield. Prices on Turnip Seed, except where otherwise noted: Pkt., 5c; oz., 10c; ¼ lb., 25c; ½ lb., 40c; 1 lb., 75c, postpaid.

## DWARF ESSEX RAPE

A very desirable green feed for poultry, and the best kind of fodder for hogs, sheep and cattle. It is much like the Swedish turnip or rutabaga in appearance, but the top is more like that of a cabbage. It gives a tremendous yield and a luxuriant pasture.

We carry the genuine stock. Be sure to try it. Per lb., prepaid, 30c; not prepaid, 10 lbs., \$1.50; 100 lbs., \$12.50.

## Vegetable Plants

Our growers of vegetable plants are experienced and experts in their line. We have built up a wonderful large and growing business on the quality of plants we send out. A trial order will convince you.

**SHIPPING DATE**—All plants will be shipped when all danger of frost is over unless otherwise specified in order. If ordered with seeds or poultry supplies, balance of order will be filled and acknowledgment of plant order and approximate date of shipping will be packed in seed or poultry shipment.

### TOMATOES

**JOHN BAER**—One of the earliest varieties for Montana, of splendid color and flavor. Large fruit and a heavy yielder.

**EARLIANA**—As the name implies it is one of the earliest. Fruit very large and firm. A heavy yielder.

**BONNY BEST**—Vines strong and vigorous, fruit deep scarlet, ripening to stem. Flesh firm. A productive and very desirable early and main crop variety.

#### PRICES ON ABOVE VARIETIES

Dozen, 3 inch pot grown .....	\$1.00; postpaid	\$1.35
Dozen, 4 inch pot grown .....	1.50; postpaid	2.00
Dozen from boxes, transplanted.....	.50; postpaid	.65
100 from boxes, transplanted .....	3.50; postpaid	3.75

### CUCUMBERS

We have the White Spine and Select. From 2½ inch pots. Each 10c, postpaid 15c; one dozen \$1.00, postpaid, \$1.25.

### CAULIFLOWER

**EARLY SNOWBALL**—Per dozen 25c; postpaid 35c; Bench Planted, fifty, 75c; postpaid, 95c; hundred, \$1.25, postpaid \$1.50.

### PEPPERS

**BULL NOSE**—Per dozen 75c; postpaid 85c; Bench Planted.

### PARSLEY

**MOSS CURLED**—2 inch pots. Per dozen, 50c; postpaid, 75c.

### MUSKMELON

2½ inch pot. Per dozen \$1.00; postpaid, \$1.30.

### CABBAGE

We have the following varieties: Red Rock, Jersey Wakefield, Copenhagen Markt, Danish Ball Head, Late Flat Dutch. Prices, per dozen, 15c; postpaid 25c; per hundred, \$1.00; postpaid, \$1.40; per thousand, \$8.00.

**GOLDEN ACRE CABBAGE**—This is the new variety that everyone who has tried it proclaims the best. See description in this catalogue. Per doz., 20c; postpaid 30c; per hundred \$1.50, postpaid \$1.90; per thousand \$10.00.

### CELERY

**GOLDEN PLUME**—Golden Self Blanching (Imported Strain). Per dozen, 25c; postpaid, 40c; per hundred \$1.50, postpaid \$1.80.

**NOTICE**—Please write for prices on vegetable plants in large quantities. Our facilities for filling large orders are unlimited and the quality and price will please you.

### RHUBARB

Strong 1 year old roots. Each 25c; per dozen \$2.50; 2 year old, each 35c; per dozen \$3.00.

### ASPARAGUS

**WASHINGTON RUST PROOF**—2 year old field grown roots, per 100, \$5.00.

### HORSE RADISH

Large clumps, each 50c.

### BERMUDA ONION PLANTS

Plant in your garden a few fresh live Bermuda onion plants which produce the sweet juicy Bermuda onion you have paid big prices for at the store.

They will come direct to you fresh from the field from our growing station in Southwest Texas. Plant them early and enjoy a part of them as green onions while they are maturing. Complete growing instructions in every package.

We guarantee to satisfy you on every shipment. Prices delivered. Sold in the following amounts or multiples only.

Yellow Bermuda and Crystal Wax—200, 60c; 500, \$1.20; 1000, \$2.30, prepaid.

Prices crate lots: 6000 plants express collect, Yellow Bermuda, Crystal Wax, \$10.00.

The Crystal Wax is a medium sized pure waxy white onion. The Yellow Bermuda is about the same size as the Crystal Wax, but a yellow straw color.

Crate weight averages 30 lbs. Express charges average \$2.15. Order early specifying delivery date.

*Grows  
beautiful  
lawns and  
flowers!*

Success for all with Vigoro! Users find that this ideal plantfood gives a quick vigorous start—more velvety green grass, better flowers, crisp succulent vegetables.

nourishment in a 100 lb. sack for lawn or garden 50 x 50 to 50 x 100 feet. Only 2 to 4 lbs. per 100 square feet, and not at all costly!

Full directions for applying Vigoro in every bag. In paper-lined bags of 100, 50, 25 lbs., and 5 lb. packages. Order Vigoro today for all the things you grow.

A Swift & Company Product

Endorsed by  
Leading  
Landscape  
Gardeners &  
Nurserymen

**VIGORO**  
Makes better lawns,  
gardens, flowers, trees  
and shrubs



Prepaid, 12 oz. pkg., 20c; 5 lbs., 70c; 25 lbs., \$2.25. By express or freight, 50 lbs., \$3.75; 100 lbs., \$6.00.

# FERTILIZERS

## PREPARED SHEEP FERTILIZER

One of the Best Known of All Fertilizers. Ideal for Plants, Vegetable Gardens and Lawns.

Due to a special process in which this is pulverized and then heated to a temperature of 300 degrees, we can guarantee this to be odorless and absolutely free of weeds. Place a small amount on the lawn and then wet it. The action of the water immediately dissolves the fertilizer and it goes to the root where the most good is accomplished. Wonderful for house plants. Simply place a teaspoonful to each pot and then water. This fertilizer insures quick and steady growth, with better coloring and luxuriant foliage. 25 lb. bag, 75c; 50 lb. bag \$1.00; 100 lb. bag, \$1.75. Can also be used as a liquid fertilizer, in water. For general use apply 50 lbs. to every 100 square feet.

## STIM-U-PLANT

PLANT STIMULANT TABLET

**AMMONIUM SULPHATE**—A real fertilizer for Farms, Gardens, Lawns, Flowers and Shrubs. Easy to apply, lasting, odorless, economical. 100 lbs. of Ammonium Sulphate is equal in nitrogen content to 4000 lbs. of good stable manure. Can be applied dissolved in water or broadcast. Will not burn. Permeates the ground quickly and the results of its use, on many crops, can be perceived in a few days. Complete directions for application of same furnished with each package. 10 lbs., \$1.00; 100 lbs., \$8.50. Add postage.

## Paint Your Lawn Green

### USE MONTANA FERTILIZER

Easy to apply, economical, odorless, quick acting, no danger of weeds. Montana Fertilizer is a preparation of steamed bone meal and dried blood, high in ammonia, phosphoric acid and potash. Complete directions furnished with each package. Can be used on the lawn, flowers, vegetable garden and all house plants. Per 25 lbs., \$1.25; 50 lbs., \$2.25; 100 lbs., \$4.00; ton lots, \$3.60 per 100

## STIM-U-PLANT

A highly concentrated, immediately available form of plant food in tablet form. No danger of burning plants by over-feeding as full directions furnished give number of tablets for each kind of plant or flower. The most modern, efficient and scientific method of fertilizing growing plants that we know of. 30 tablets 25c; 100 tablets 75c, postpaid 80c; 1000 tablets \$3.50; postpaid \$3.60.



## BONE MEAL

A well known fertilizer for all purposes, safe and effective. One to 25 lbs., 7c per lb., 100 lbs., \$5.00. Add postage.

# Inoculate

**Alfalfa, Sweet Clover, all Clovers, Soy Beans, Cow Peas, Vetch, Peas, Beans, all Legumes with**

The Original Soil Inoculator — Registered in the U.S. Dec. 6, 1898—over 26 years ago.



The Reliable Soil Inoculator — awarded Gold Medal World's Fair, St. Louis, in 1904—over 20 years ago.

## The Original Soil Inoculator

Grow legumes—alfalfa, clovers, soys, vetch, peas, and beans—for valuable feed crops, soil improvers, cover crops; BUT BE SURE TO INOCULATE THEM WITH NITRAGIN. Agricultural Colleges advise inoculation. Inoculated legumes draw valuable nitrogen from the air—not the soil—increase yield and quality of the crop and leave a rich store of nitrogen in the soil for future crops. Inoculated legume seed develops heavy clusters of nodules, where nitrogen is stored, on the roots of the legume plant and without which the legume is valueless as a soil builder. A Nitragin inoculated legume crop bears heavy nodules and pays big in increased soil fertility.

Protect yourself by insisting on NITRAGIN, the original Soil inoculator. All inoculators are perishable; every package of Nitragin is dated as to life of contents for your protection. Look for the dated label when buying; agricultural colleges recommend this protection.

### Prices for Field Nitragin

Always state kind of seed you want to inoculate.

1/4 bu. size for 15 lbs. seed	.....\$0.40
1/2 bu. size for 30 lbs. seed	..... .60
1/2 bu. size for Soy Beans and Cow Peas..	..... .40*
1 bu. size for 60 lbs. seed	..... 1.00
1 bu. size for Soy Beans and Cow Peas..	..... .70*
5 bu. size for 300 lbs. seed	..... 4.75
5 bu. size for Soy Beans and Cow Peas..	..... 2.50*

\*These prices on Nitragin for Soy Beans and Cow Peas have been greatly reduced from former prices. Buy the economical 5 bu. size for 50c per bushel of seed, treated.

When ordering always state kind of seed you want to inoculate.

### Nitragin for Garden Uses

Every garden needs Nitragin; garden size is for Peas, Sweet Peas, and Beans including Lima (3 in one Inoculant) Price.....20c



Nitragin is an old reliable inoculator. It is well known and used by many agricultural colleges. Sold in tins—not glass—packed in a rich, soil-like granular medium, easy to mix with seed. Contents always fresh and bacteria active and vigorous.

## Sprayers and Accessories

**DIAMOND GALVANIZED CONTINUOUS SPRAYER**—Of very heavy construction. It is so constructed that it sprays both with the upward and downward motion, giving a continuous misty spray. Much faster than the old style. Fitted with tip for spraying upward or under hen roosts. Nothing to get out of order. Each 98c; postpaid, \$1.10.



competitive article. Strongly built and will give lots of service. Each 49c, postpaid.

No. 125, (Midget Size) The ideal sprayer for the home. For use with disinfectants, insecticides and general small spraying. Light and easily handled by a woman. Each 29c, postpaid 34c.

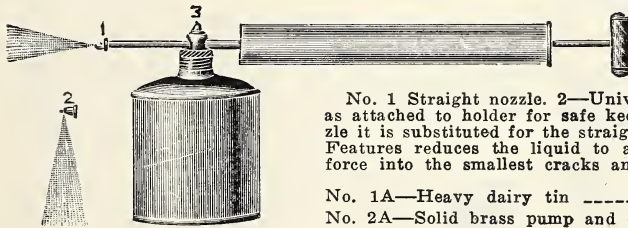
### DIAMOND G SPECIAL GLASS JAR SPRAYER

—No need of worrying about cleaning out tank as it cannot rust or corrode. Simply remove mason jar furnished and replace with any other mason jar. Air pump extra large giving proper amount of air for spraying.

No. 338, wt., 3 lbs., 65c. Ppd. 75c.

### DUSTER

The No. 365 Utility Duster handles all powdered insecticides. Because of its size and compact construction, it is used principally in the garden, in the dairy barn, hog pen, chicken house, etc. Each, \$1.25. Postpaid, \$1.35.



No. 1 Straight nozzle. 2—Universal nozzle detached. 3—Shows universal nozzle as attached to holder for safe keeping when not in use. To use the universal nozzle it is substituted for the straight nozzle No. 1 on the end of the tube. Patented Features reduces the liquid to a fine mist-like vapor and throws it with great force into the smallest cracks and crevices.

No. 1A—Heavy dairy tin	-----	\$1.00	postpaid
No. 2A—Solid brass pump and container	-----	2.00	\$1.12
			2.12

### BORDEAUX NOZZLE

Bordeaux Nozzle for spraying, white washing or cold water painting. Adjustable to regulate the quantity of liquid used. Throws a wide flat spray, and can be graduated from a fine mist to a solid stream, or shut off completely. Made entirely of brass. Threaded for 1/4 in. standard pipe.

No. 329—Price each 65c.



### BRASS EXTENSION TUBE



Length 3 ft. Fits our No. 10 Pump. Made of brass, and will not rust or corrode. Useful in spraying ceilings. Each 75c.

### BUCKET SPRAYER AND WHITEWASHER

Double acting, gives steady spray. Made of brass and has iron handle and foot rest. Has 3 feet of 3-8 inch hose and two nozzles, one for spraying, the other a straight stream nozzle for sprinkling. May be used for spraying or white-washing. Shipping weight 6 lbs. Price \$4.15, postpaid.

### DIAMOND SPECIAL KNAPSACK SPRAYER

This type of sprayer is the most popular for all general work. It is adapted for general spraying, white washing, cold water paints, application of glue sizing, disinfecting, or applying Paris Green.

Pump cylinder made of brass with bronze ball check valve, which will not deteriorate like rubber. Filling cap of ample size, easily removed without the use of a wrench.

The nozzle is made of brass and is equipped with strainer and three sizes of discs. Size of stream, from misty spray its solid stream is governed by the use of these discs. Weight 10 lb., each \$6.25, postpaid.



### DIAMOND G JR. DUSTER

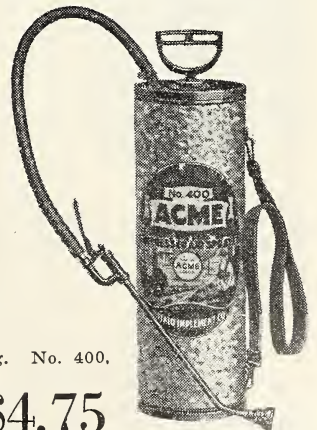
This duster will use all insect powders, a handy size for use around the home for exterminating roaches, ants, mosquitoes, flies, etc. Heavy tinned 2 in. extension flattened at end for getting in cracks, etc. Each, 60c, postpaid.



### THE ROBERTSON COMPRESSED AIR SPRAYER

### ACME COMPRESSED AIR SPRAYER

Constructed with strong galvanized steel tank with a capacity of 4 gallons, all seams soldered and riveted, seamless brass cylinder pump, convenient to operate and absolutely air tight, easily removed for filling, solid brass nozzle with 12 inch extension curved for underneath spraying. Will not corrode; absolutely non-clogging. No. 400, wt., 10 lbs.; each



**\$4.75**

Repair Parts for Sprayers, See Page 50.

# Insecticides and Fungicides— Take the Speculation Out of Spraying



Comply with all Federal and State Regulations  
Prices Subject to Change  
Write for Quantity Prices

HANG • ME UP

## SPRAYING GUIDE

**ACME**

### Insecticides and Fungicides

SPRAY IN TIME PROFIT LATER

#### WHEN AND WHAT TO SPRAY

INSECT	PLANT	SPRAYING	REMARKS
FLY	POTATOES	...	...
BEETLE	CABBAGE	...	...
CATERPILLAR	APPLE	...	...

Write for this Fine Guide Free

## ACME PARIS GREEN



A rich emerald color and of fine fluffy physical character. Containing 55 per cent arsenious oxide, it will give quickest control where extreme measures are necessary. For use on: Potatoes, cotton, tobacco, also to mix with arsenate of lead for fruit tree spraying where quick results are necessary. Prices: 1/4 lb., 15c; 1/2 lb., 25c; 1 lb., 45c; 5 lb., \$2.10.

## ACME ARSENATE OF LEAD

The most favored arsenical insecticide found on the American market.

It is safest to use on tender foliage and sticks well on the leaves. Recommended for fruit trees, vegetables, bushes and tobacco. Can be used as dust or spray. Prices: 1/2 lb., 30c; 1 lb., 50c; 4 lbs., \$1.40.

## ACME GARDEN GUARD



A garden insecticide and fungicide for use as a dust. No water, no mixing, no muss. For use on: Cabbage, cauliflower, tomato plants, melon vines, currants and gooseberries and other vegetables, flowers and shrubs of many kinds. Prices: 1 lb., sifter carton, 35c.

## ACME TWO-WAY SPRAY

A balanced insecticide and fungicide containing 14 per cent arsenate of lead and 83 per cent Bordeaux Mixture.

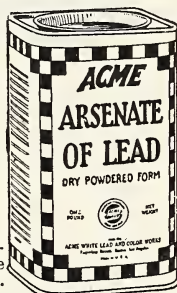
Two results with one application. Use wet or dry on:

Apple, sour cherry, currant and gooseberry, grape, pear, plum, strawberry, pecan, bean, beet, cucumber, pepper, potato, tomato and many other fruits and vegetables. Prices: 1/2 lb., 30c; 1 lb., 50c; 4 lbs., \$1.40.

## ACME LONDON PURPLE



A favored insecticide for 50 yrs. Now stronger and better than ever. London Purple is one of the lightest and fluffiest powdered insecticides on the market, assuring complete coverage and greatest adhesion to foliage. For use on potatoes, cotton, tobacco, sugar beets and many other shrubs and vegetables affected by leaf chewing insects. Price: 1/4 lb., 40c; 1 lb., 90c.



## ACME BORDEAUX MIXTURE

Prevents large losses caused by blight, rot, mildew, scab, anthracnose and certain other fungous diseases. It stimulates plant growth and greatly increases the harvests. Almost every kind of vegetable, fruit and shrub can be greatly improved by the early use of Bordeaux Mixture. Prices: 1 lb., 45c; 4 lbs., \$1.25.

## ACME ALL ROUND SPRAY

The latest improvement in the insecticide field; one product which will combat blight and fungous diseases, control sucking insects and destroy chewing insects in one application. Safe to use on almost all fruits, vegetables, flowers and shrubs. Write for description circular. Prices: 1/4 lb., 45c; 1 lb., 90c.



## ACME BAIT-M

An effective insecticide bait which will throw a ring of protection around shrubs, flowers and plants in garden and lawn. For use against snails, cutworms, sow bugs, grasshoppers and many other insects which migrate along the ground. Prices 1 lb., 55c.

## BLACK LEAF 40



There are two distinct kinds of plant insects, the "chewing" (eating) kind and the "sucking" kind. The chewing insects, which actually eat plant tissues, also attack garden crops. Prominent in this class are potato beetles, cabbage worms, currant worms, etc. These pests eat leaves and other outer portions of the plant or fruit and consequently can best be controlled by spraying or dusting a poison, like Garden Guard, Arsenate of Lead, etc., over the entire plant. The sucking insects feed by inserting their sharp, slender beaks into the interior of the leaf, blossom, stem or fruit. They cannot eat plant tissue, hence cannot eat poison. They must therefore be killed with a preparation which kills by coming into contact with their bodies; in other words by a contact insecticide—"Black Leaf 40." Black Leaf 40 is deadly effective against aphids (plant lice), thrips and leaf hoppers. A 35c bottle will make 6 gallons of effective spray. 1 oz. bottle, 35c; 1/2 lb., tins, \$1.25; 2 lb., \$3.25.

## WONDER WEED KILLER

A new preparation imported from Denmark that is guaranteed to DESTROY DANDELION, THISTLE, MUSTARD and all other oil-holding seed weeds. Easy to apply, with no danger to the lawn. Simply scatter the powder over the lawn early in the morning. One application is sufficient when weeds are young and tender. When they have a good growth two applications may be needed. Per lb., 50c postpaid; per 5 lbs., \$2.10, postpaid.



## Use **EVER GREEN** to NON-POISONOUS INSECTICIDE PROTECT YOUR GARDEN

The new effective insecticide. Kills every insect that the home gardener is likely to encounter. Absolutely NON-POISONOUS to humans, animals and birds. No danger from eating fruits and vegetables that have been sprayed with EVER-GREEN. Easily mixed. Simply mix with soapy water and spray on foliage. Has a pleasant odor suggestive of fresh cedar. Economical to use. Price, per bottle 40c postpaid. Makes nine gallons of spray.

### CORONA TREE WOUND DRESSING

If you value your trees and wish them to develop and continue to grow into beautiful living ornaments, by all means prune them and after pruning use a prepared tree wound dressing. If you want to compare Corona Tree Wound Dressing with other paints or dressings, do so by removing elliptical strips of bark one and one-half inches long by three-quarters of an inch wide from a three inch apple limb. Examine it three weeks later and notice the difference. Full directions furnished with each can. Prepaid, 85c per quart can.



### ACME SPRAY SOAP

A (fish oil) soap effective in destroying many sucking insects and lice on plants, trees, ferns, etc. Also used extensively with cylinder oils in making oil emulsions to reduce the surface tension. Price, 1 lb., 55c, postpaid.

## Acme All Round Spray

**SWEEPS YOUR GARDEN CLEAN**

One shot of All Round Spray gives triple service in protection of your flowers, shrubs, vines, vegetables and trees. Three leading remedies known by horticultural experts are combined in this one tightly sealed package to make it the final answer in spraying by the amateur gardener. A spraying guide with each package makes its use sure, safe and effective.



¼ lb. tins ea. 45c 1 lb. tins ea. 95c

**ONE SPRAY SAVES ALL**



## NEW WAY TO **KILL** GARDEN BUGS

PROTECT your flowers and vegetables this new way. Surprisingly easy! Simply sprinkle with a new kind of non-poisonous powder called PLANTGARD. Not only are bugs, worms and insects *killed*, but this almost magical powder also fertilizes the ground. No wonder flowers grow larger and brighter colored! Vegetables mature quicker and are more tasty. Yet it costs only a few cents to protect an entire garden bed. Ask for Plantgard today.

**Plantgard**  
FOR GARDEN PROTECTION



Postpaid prices: 1 lb., 40c; 2 lbs., 70c.

### ANT DESTROYER



**SURE**

**QUICK**

**RELIABLE**

**BON ARBOR BRAND ANT DESTROYER**—Is used and endorsed by Private and Market Gardeners. Public Park Superintendents and Housekeepers universally. Will rid your premises of Ants all sizes.

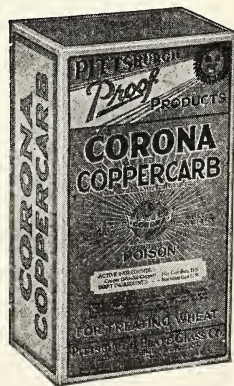
USE ONLY ON A DRY DAY OR IN A DRY PLACE WHEN ANTS ARE WORKING.

Postpaid prices: 4 oz., can 25c; 8 oz., can 40c; 1 lb., can, 75c, postpaid.

### CORONA COPPERCARB

Kill stinking smut on your wheat seed. Buy Corona Coppercarb. Largest and most progressive growers have rendered the verdict. A large practical usage in every section of the country has given entire satisfaction and the wheat growers insist upon buying it again. Why work nights to treat your wheat? Get rid of the old, disagreeable methods by using Corona Coppercarb. It saves time and labor—the seed can be treated any time before planting—it is not necessary to disinfect seed containers—not wetting the seed does away with the liability of freezing, heating or sprouting—no setting of drill necessary for swollen grain—it saves seed—it costs less—it does not injure the seed and it prevents smut. Write for free literature. Use from 2 to 3 ounces per bushel of grain. Price: 5 lbs., \$1.25; 25 lbs., \$6.00, postpaid. 50 lbs., \$10.50 F. O. B. Gt. Falls, Montana.

**COPPERCARB** 50 per cent—Per 5 lb., \$2.50; 25 lb., \$10.00; 50 lb., \$23.00.



### MORE AND BETTER POTATOES

By the Use of **CORROSIVE SUBLIMATE**

Disinfect your **SEED POTATOES** and prevent Common Scab, Black Scurf and Blackleg. Full directions for mixing and using the solution furnished with each package. Per 1 lb. box, \$3.25, postpaid.

## Protect Your Grain Profits Increase Your Crop Yields with **CERESAN**

Why lose part of your grain crops through smuts and other seed-borne diseases? Prevent these diseases and protect your profits by treating all seed grains with Ceresan before sowing. Effective in controlling stinking smut and seed-borne flag smut of wheat; seedling blight of cereals caused by seed-borne scab; smuts of oats; covered smut and stripe of barley; kernel smuts of sorghums and millets; and seed-borne stem smut of rye. Seed may be treated in spare time. Ceresan is harmless to seed and does not injure grain drills. Use 2 oz. per bushel of seed wheat, rye, sorghums or millets; 3 oz. for oats and barley.

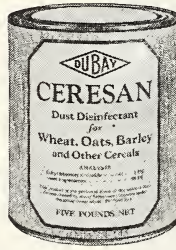


*Ceresan increased this oats yield 19.1 bushels per acre and gave perfect smut control.*

The only  
seed treat-  
ment you  
need for

**Wheat  
Oats  
Barley  
Rye  
Sorghums  
Millet**

1 lb. ....\$ .75  
5 lb. .... 3.00  
25 lb. ....12.50



### **SEMESAN BEL—For Seed Potatoes**

Potato diseases cause a loss equivalent to the yield of 1 acre in every 5 or 6 acres planted. Much of this loss can be prevented by treating seed before planting with Semesan Bel, the instantaneous dip disinfectant. Effective in controlling such seed-borne diseases as scab, rhizoctonia and black leg. Protects seed piece from rotting caused by certain soil borne organisms, improves germination and usually produces a bigger crop of better quality. One pound treats 16 to 22 bushels of seed. Prices: 4 oz., 50c; 1 lb., \$1.75; 5 lbs., \$8.00; 25 lbs., \$31.25.

### **REPAIR PARTS AND ACCESSORIES FOR SPRAYERS**

No. 126 Brass Whirl Disc for nozzle used on DIAMOND NO. 124 KNAPSACK and No. 20 compressed sprayer. Price 10c; postpaid, 12c.

Brass Strainer for nozzle for same sprayers. Price 10c; postpaid 12c.

No. 111 Nozzle Discs for above sprayer in Fine Medium and Course. Each 5c; postpaid, 7c.

No. 114 Nozzle Gaskets for above sprayers. Price 5c; postpaid 7c.

No. K112 Plunger Leathers for above sprayers. Price 10c; postpaid 12c.

No. K113 Pump Gaskets for above sprayers. Price, 10c; postpaid, 12c.

No. 65 Automatic Angle nozzle. Will fit on No. 20 and DIAMOND KNAPSACK SPRAYER. Fine for overhead work. Price \$1.65; postpaid, \$1.75.

No. 30-80. Automatic Angle nozzle fitted with automatic shut off. Will fit on No. 20 and DIAMOND KNAPSACK. Very handy as nozzle will shut off alone when not in use. Price \$1.65; postpaid \$1.75.

No. 80 Angle Service Nozzle 1/4 inch pipe thread, complete, Price, 75c; postpaid 85c.

Write for Free Spraying Chart and complete line of insecticides. Let us help you protect your garden, flowers, and trees.

**CYANOGAS**  
Will Kill All These Pests



Ants, Sparrows, Ground Hogs, Prairie Dogs, Rats, Mice, Bedbugs, Wireworms, Pocket Gophers, Cloth Moths, Cockroaches.

When exposed to the air it gives off a gas that is deadly to rodent and insect pests and kills them almost immediately. The pests don't have to eat Cyanogas—or even touch it. It gets them wherever they are. None can escape it. Easy, quick and thorough.

Prices, per 5 lb., \$1.60, postpaid. Free directions with each package.

### **CHECKER INSECTICIDE**

Means Garden Insurance. Sure death to leaf eating insects. Very easy to apply. Just shake it in the plants and it will do the rest. In pound cans with perforated top for applying. Each, 25c. Can not be sent by mail.

### **WEEDEX**

The Scientific Chemical Weed-Killer

Kills weeds with their roots and seeds. Saves you Health, Time, Energy and Money. One gallon of concentrated Weedex will make 50 gallons of treating liquid which will be sufficient to effectively cover 150 square yards of paths or roadways. Full directions furnished with each can. Per gal., \$3.50.

### **SAVE YOUR GARDEN WITH A FEENY DUSTER**

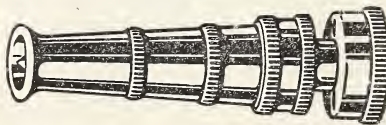
The use of a MODEL B DUSTER is nothing like the old, dirty, sloppy job of trying to kill bugs or insects in your garden with a liquid sprayer. It does not have to be cleaned after using as with a liquid sprayer. The ideal duster for potato bugs.

The dust cloud from a model B covers every surface of the thing that is to be dusted. Why waste time and material with ineffective sprayers and make-shift dusters.

Price, \$1.25; postpaid, \$1.35.



### **BRASS NOZZLE—A CLEAN, STRONG, UNIFORM STREAM**



Due to our PILOTED TIP always positively centered, we obtain a uniform stream, perfect in form and not one-sided as is often the case in nozzles where the tip is not positively centered. This perfect stream can be regulated to a fine spray if desired and it will cover a larger area than any other nozzle of like size now on the market. The actual size of nozzle is four inches. Price 75c; postpaid 85c.

**ADJUSTABLE RAIN-DROP SPRINKLER***Adjustable~*  
**RAIN DROP  
SPRINKLER**

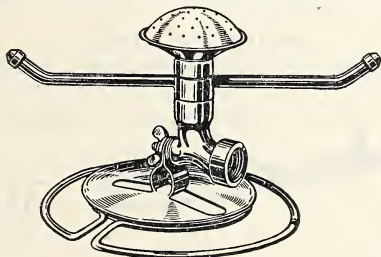
For watering along the walk or property line it is adjustable as shown in illustration above. Where it is desired to throw to distant points rose spray is removed and nozzle put in its place, as shown on right hand illustration. When used upright position as a fountain spray it will give a spread of 20 to 30 feet. It is really three sprayers in one. Price complete \$1.50.

**HOSE MENDERS**—Made of brass and will not rust. For joining a broken hose, cut through and insert the mender. No clamps required.  $\frac{1}{2}$  and 5-8 inch. State size wanted. Each 10c.



**HOSE CLAMPS**—For a tight connection. Used to fasten hose to a coupling with nut and screw.  $\frac{1}{2}$  and 5-8 inch. Each 5c.

**HOSE COUPLING**—Made of brass in  $\frac{1}{2}$ , 5-8 and 3-4 inch size. State size wanted. Each 15c; postpaid 18c.

**THE ROTARY RAIN-DROP LAWN SPRAY**

This sprinkler is designed for large lawns, etc., where it is necessary to cover a larger area than in the average lawn. It is a combination of the Rain-Drop Spray and two Revolving Arms that throw the water outside the circle covered by the Rose Top. The fine raindrop spray from the Rose Top mingles with the larger streams thrown by the Arms and makes an ideal spray for the larger lawns.

**FRICTIONLESS BEARINGS**

The moving parts have frictionless bearings so the arms will not stop high or low pressure but rotate with an even and smooth speed. Price Rotary Rain-Drop Lawn Spray complete with Arms, \$3.00.

**GRAHAM & ROSS "SAUCER SPRAY"**

THE BIGGEST LITTLE SPRINKLER you ever saw. SIMPLE, DURABLE, CHEAP.

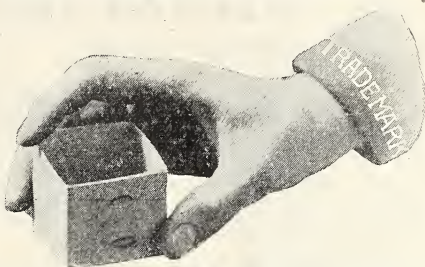
Does a wonderful job of watering.

Will water a circle 30 to 40 feet in diameter, evenly and gently, and with the finest spray you ever saw. The kind of watering that makes things grow. An additional cap is furnished, perforated to water only one-half of a circle. For corners, borders you could not reach with a round spray, this is just the spray you have been looking for. Postpaid your station 75c.

**"MISTO" SPRINKLER**

Two in One.

Into this small sprinkler are crowded a whole lot of good points, more than are usually found in several small sprinklers. The revolving head spins at a great rate, breaking up the water nicely over a 35 foot circle. Can be instantly converted to a sprayer which will throw a perfect cloud of fine mist 12 feet from the sprinkler. Wonderful for borders, newly seeded lawns, parkways, strips, etc. Can be set on walk without wetting passers-by. Postpaid your station \$1.50.

**PLANT BANDS AND PAPER POTS.**

**PLANT BANDS**—The simplest way to handle plants for transplanting is to grow them in our Ready-to-Use Plant Bands, because they are ready to use and no time is lost in setting them up. You will find these bands very economical; they make an ideal worm guard. When transplanting the old way, roots are exposed to air and with the result that plants are seriously set back. With Plant Bands it is even possible to transplant corn and cucumbers. Plants started in these bands and set in the field never know they have been moved. Prolong your growing period by getting an earlier start. Plants mature by this method from two to four weeks ahead of those grown by any other method. You can have the earliest vegetables by using these Plant Bands. Take advantage of high prices which plants and vegetables bring when brought to early maturity.

Prices (all bands packed 250 to carton):

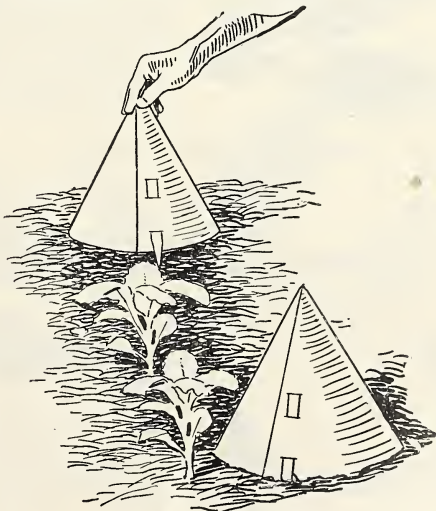
No.	Size	Depth	Prepaid	Per	Prepaid	Per
			Pkg.	Pkg.	Pkg.	Pkg.
2B	2x2 in.	2½ in.	100	\$0.75	250	\$1.50
3B	3x3 in.	3 in.	100	.90	250	2.00
						6.10

**BANDS WITH FOLDING BOTTOMS**

Can be used as an extra deep band by leaving bottom unfolded. By pushing the flaps in you have a square pot with bottom.

No.	Size	Depth	Prepaid	Per	Prepaid	Per
			Pkg.	Pkg.	Pkg.	Pkg.
2P	2x2 in.	2½ in.	100	\$0.85	250	\$1.75
3P	3x3 in.	3 in.	100	1.15	250	2.25
						7.50

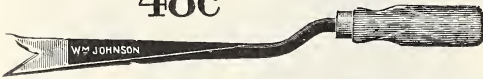
**FROST PROTECTORS**—With a supply of Ever Ready Frost Protectors there is no hunt for tin cans, pails, flower pots, or anything that will keep off the frost and anything earthen or metallic is a good conductor of heat and cold and often plants covered with such articles are frozen. Our Ever-Ready Frost Protector is made from black, shiny, waterproof paper which will last indefinitely. They come flat, packed in packages of 50, with stakes for locking the edges and anchoring the cone to the ground. Once assembled they can be nested for storage and used from year to year. They are just as good as shade and wind protectors for plants just set out, for, by allowing these stakes on the side opposite the wind or sun to extend beyond the edge, the cone will be tilted enough for ventilation. Price, including stakes: 7c each; 70c per dozen; 25 for \$1.35; 50 for \$2.50, postpaid.



# Garden and Lawn Supplies

## ASPARAGUS KNIVES

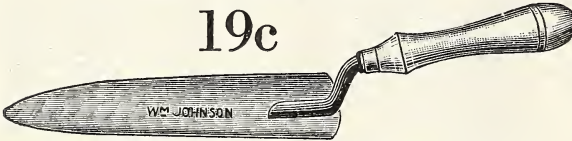
48c



These are forged from round steel, well hardened and tempered to stand rough usage. Used also as a digger and weeder. One of the best for long root weeds such as Dandelions. Each 48c; postpaid 55c.

## LADIES FLOWER TROWEL

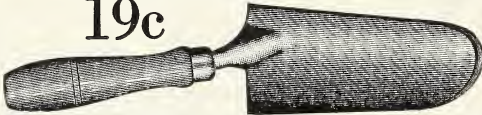
19c



Every lady who works in the garden needs one of these trowels. Very well built and is riveted by the new method which makes it stronger. Long and slender which makes it easy to handle. No. 216. Each 19c; postpaid, 25c.

## ECONOMY GARDEN TROWELS

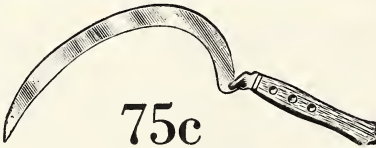
19c



Heavy steel blade. No rivets, Shellac Handle. Just the thing for transplanting plants. 6 inch blade 25c, postpaid. 5 inch blade 19c, postpaid 25c.

## FORGED STEEL GRASS HOOKS

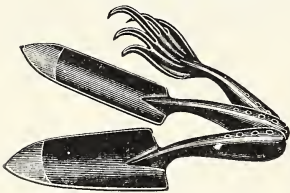
Forged cutlery steel blade. Tempered, ground and whetted to a sharp, keen edge. Has a raised or off-set hard-wood handle securely fastened. Perfect balance and swing. No. 427, each 75c; postpaid, 85c.



75c

## THREE-PIECE GARDEN SET

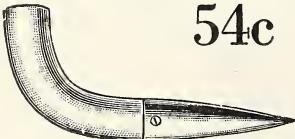
59c



No. 83. Set of Three Tools. One Trowel, one Transplanting Trowel, One Weeder. All made of heavy pressed steel, handsomely finished. Per set 59c; postpaid 69c.

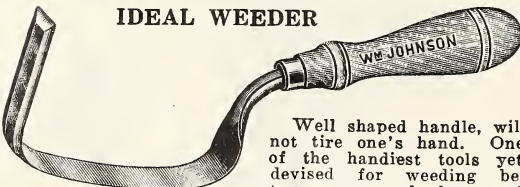
## WOOD HANDLE DIBBLE

54c



Polished blade shape, size and hang bent wood handle. Just the proper for transplanting celery, cabbage, etc. Each 54c, postpaid 60c.

## IDEAL WEEDER



Well shaped handle, will not tire one's hand. One of the handiest tools yet devised for weeding between rows and plants and thinning out. Each 24c; postpaid 30c.

## STEEL GARDEN WEEDERS

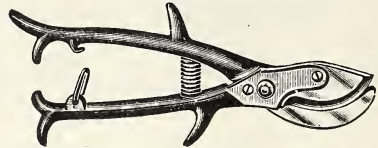
24c



No. 82. Garden Weeder. One piece pressed steel. Has five steel fingers, and is one of the most useful and handiest garden tools made. Ground and polished points. Each 24c; postpaid 30c.

## PRUNING SHEARS

New England Pattern



55c

A good medium priced shear. Length 9 in. with steel blade, coil spring. Black japanned handles. No. 310, price each 55c; postpaid 65c.

## California Pattern



\$1.50

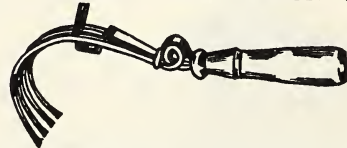
California pattern, length 9 in. High grade tempered tool steel blade. Double flat brass springs. Adjustable ratchet nut. Black japanned handles. No. 312, price each \$1.50; postpaid \$1.60.

## WOODEN LABELS

Know your seeds after you have planted them. Price, per 100 postpaid: 4 in., 35c; 5 in., 40c; 6 in., 45c.

## MAGIC COMBINATION WEEDER

50c



A very handy tool for use around flowers and small vegetables. Destroys the weeds and leaves the earth about the roots without disturbing the roots themselves. The blade or weed cutter is very handy for cutting roots or making furrows. Price 50c each; postpaid 60c.

## TRANSPLANTING HOE TROWELS

73c



No market gardener should be without one of these. Will pay for itself many times in a season in the saving of work and time. Blade and shank one piece with well constructed handle. Each 73c; postpaid 80c.

## GRASS SHEARS

Standard Grass Shear, with straight shank and narrow 6-inch blade. Black finish. No. 414, each 49c; postpaid 60c.

49c

## HEDGE SHEARS



Superior quality hedge shears, with forged steel blades and clear selected wood handles. Blades are secured to handles by rivets through the tang and ferrule. No. 421, 8 in. serrated notched blade, weight 2 lbs., price each \$2.60. Add postage.

## REINFORCED FARMTEX

Patent Applied For

### THE BETTER MULCH PAPER

#### STOPS WEEDS, SPEEDS GROWTH

The value of mulch paper for growing crops has been established through scientific tests made by Agricultural Colleges, by the United States Department of Agriculture and by results obtained by farmers and gardeners.

Mulch paper has proved a great labor saver, keeping down weeds, thus doing away with the necessity of weeding or cultivating. This means an important saving of time and money where labor is employed.

Keeping the weeds down prevents their taking fertility from the soil, thus saving in the amount of fertilizer required.

Mulch paper permits all rain that falls to enter the soil and then keeps it entrapped there. All moisture is kept in the ground for the use of the crop, and the land being free from weeds, the crop has full benefit of the fertility of the soil without having to share it with useless weeds.

Re-enforced Farmtex absorbs the heat of solar radiation and keeps the soil at favorable growing temperature. Thus

#### LARGER AND BETTER CROPS

are produced where Reenforced Farmtex is used.

Reenforced Farmtex has two thicknesses of paper; three thicknesses of asphalt and reenforced cords between the paper, the cords set in asphalt.

The corded edges prevent tearing; the corded centers on wide widths prevent wind producing center tears. It is completely waterproof and wears a long time, giving three years' service with proper care. The use of Reenforced Farmtex is not only economical, but it is also very profitable, producing more prolific yields of better quality vegetables or flowers.

A gardener writing for The Flower Grower, September 1929, page 439, says: "Tried it on Crookneck Squash, with check hills without paper. It saved practically all weeding and made me wish I'd used it all around the hills as well as on them."

#### 150 YARD ROLLS

12 in. wide, corded edges, \$4.50 F. O. B. Great Falls, Montana.

18 in. wide, corded edges and center, \$6.25, F. O. B., Great Falls, Montana.

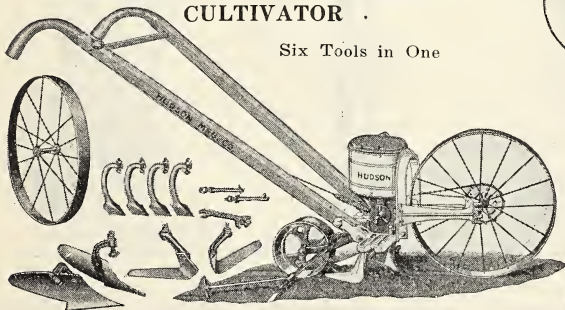
36 in. wide, corded edges, 4 cords in center, \$7.50 F. O. B. eastern factory.

First two sizes carried in stock. Last size ordered from factory.

Lay the paper between the rows. Place stones or earth on the edges to hold it in place.

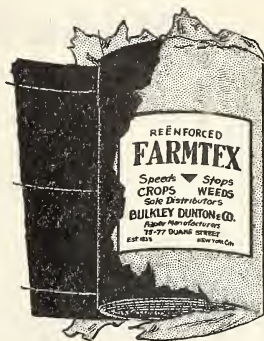
### HUDSON HILL AND DRILL SEEDER SINGLE OR DOUBLE WHEEL CULTIVATOR

Six Tools in One



This Seeder and Cultivator is a Combination outfit having equipment to serve the gardener from seeding until final cultivation. It sows in hills or drills any garden seed from peas or beans down to the finest variety. Fitted with adjustments to care for every gardening requirement. Assembled from certified and selected units.

As a seeder, it opens the furrow, drops the seed, closes the furrow, packs the earth and marks the next row. The seed regulator is brass, with openings die cut to insure absolute uniformity. This gives perfect control of the seed flow and insures uniform drills, or hills 4, 5, 6, 8, 12, or 24 inches apart. Each \$17.50.



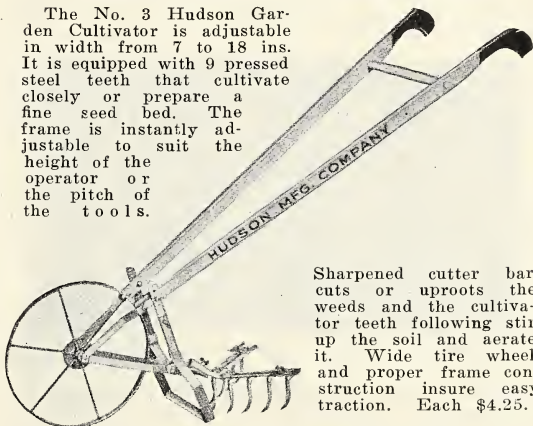
### HUDSON GARDEN PLOW Adjustable

Tool equipment consists of double pointed shovel and combination five tooth cultivator and scuffle hoe. All cutting edges are of regular plow steel, sharpened and lacquered. Cultivator is malleable. Frame is steel with adjustments for varying the pitch of the tools. Each \$4.00.



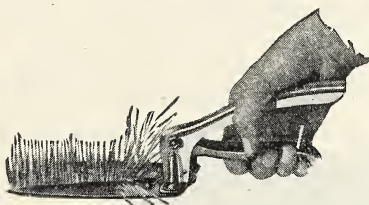
### HUDSON GARDEN CULTIVATOR

The No. 3 Hudson Garden Cultivator is adjustable in width from 7 to 18 ins. It is equipped with 9 pressed steel teeth that cultivate closely or prepare a fine seed bed. The frame is instantly adjustable to suit the height of the operator or the pitch of the tools.



Sharpened cutter bar cuts or uproots the weeds and the cultivator teeth following stir up the soil and aerate it. Wide tire wheel and proper frame construction insure easy traction. Each \$4.25.

### DOO-KLIP GRASS SHEARS



Unique up-and-down moving handles allow the hand, wrist and arm to be in a natural position and eliminates blisters, skinned knuckles and grass stains.

Blades of hardened, oil-tempered tool steel. Power is applied to the blades in three ways—by the spring, by the curve of the blades and by the patented toggle action.

They are actually self-sharpening and self-tensioning and require no adjustments. Blades cut evenly and with precision from heel to toe.

Cutting length 4 1/2 inches. New handles are triple-ribbed and stream lined, insuring maximum strength. Will give years of satisfaction and service. Each \$1.50, postpaid.

# Make Your Home More Beautiful

## AT A SURPRISINGLY LOW COST

Our Trellises and Pergolas come in complete sections ready to put up and are painted pure white. All designs listed are manufactured from CYPRESS (called the wood eternal) or the wood armed against decay. This remarkable wood is rot-proof, insect proof, free from pitch and resin and positively will not shrink, warp, or twist out of shape. Each trellis is painted with two coats of pure white lead and oil paint. We invite you to make a comparison of our prices with that of your local carpenter.

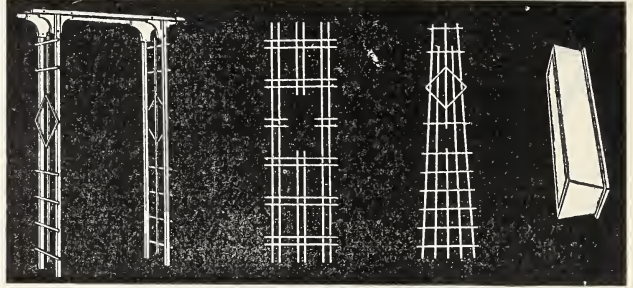
**ROSE ARBOR**—Height 7 ft., 18 ins. deep, top width 5 ft. and inside width 3½ ft. One of the prettiest and most popular pergolas. Especially attractive design and when covered with climbing roses or other climbing vines, makes a beautiful bower for an entrance way to a flower garden. Each, \$10.00 complete.

**ROSE TRELLIS**—Height 8 ft., width 30 in. So constructed as to leave an open center and yet properly balanced to insure maximum strength. Each \$2.50.

**BUNGALOW CHIMNEY TRELLIS**—Slightly tapered in construction and is especially designed for use on the outside chimney. Height 8 ft.; width at bottom 26 in., top 15 in. Painted snow white. Each \$2.50.

**FLOWER BOXES**—Being constructed of one-inch pure CYPRESS these boxes will last indefinitely, no danger of warping, or crackling. Made with ventilated bottoms permitting a free circulation of air. Stained green on the outside only.

Length	Price
24 ins. -----	\$1.50
30 ins. -----	1.75
36 ins. -----	1.90



Rose Arbor

Rose Trellis

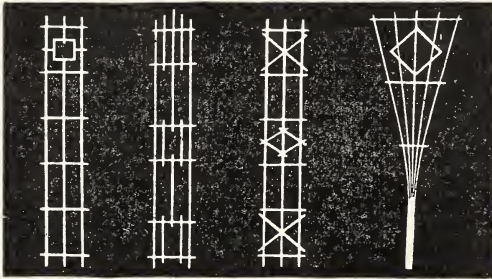
Bungalow

Flower Box

**NO. 3 TRELLIS**—This trellis proved so popular last season that we have decided to again list same. The design is simple, yet one that never becomes tiresome. Height 8 ft.; width 18 ins. Each \$1.75.

**NO. 2 TRELLIS**—One of our prettiest designs, used in groups, gives exclusiveness to any porch. Will support the heaviest vines. Painted snow white. Each \$2.00.

**NEW STYLE DIAMOND FAN TRELLIS**—The grouping of the ribs and arrangement of the diamond makes this a design of exceptional beauty. Heavy spreaders bored to slip over fan ribs. This makes the construction more substantial and no danger of the trellis losing shape. Height 6 ft.; width at top 32 ins. Each \$1.90.



No. 4

No. 3

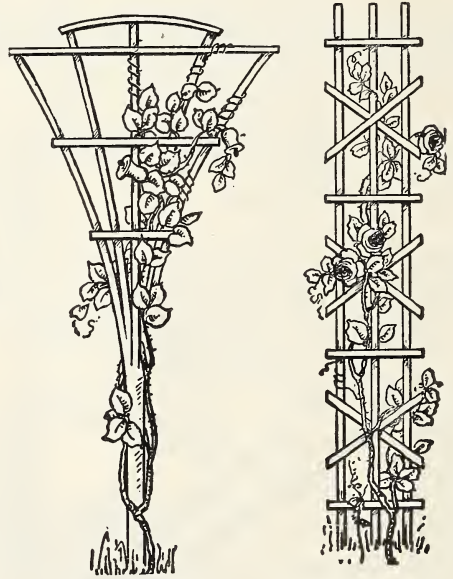
No. 2

Nu-Style  
Diamond

**SPECIAL FAN TRELLIS**—A new design that we feel sure will prove very popular. Height 8 ft.; extreme width, 54 ins. across top. A beautiful sight when covered with roses or other free blooming climbers. Easy to erect and very inexpensive. Each \$2.00.

**SPECIAL WALL TRELLIS**—Decidedly unique in construction and appearance. Height 8 ft.; width 18 ins. Painted a pure snow white. Each \$1.85.

**NO. 4 TRELLIS**—A new trellis simple but sturdy in construction. A narrow design to fit smaller spaces. Height 8 ft.; width 18 ins. Painted snow white. Each \$1.75.



Special Fan Trellis

Special Wall Trellis

### ADJUSTABLE TRELLIS

The adjustable trellis pictured on the left is 35 inches wide when folded and may be extended to 12 feet. Made of cyprus and painted pure white. This trellis has a wide range of uses and is very attractive where ever placed. Each \$1.75.

When ordering trellis be sure and include one or two bird houses, complete description of which is found on page 69. Any home is made more attractive and valuable by adding a few trellises placed most advantageously and an attractive bird house or two will entice a host of wild friends.



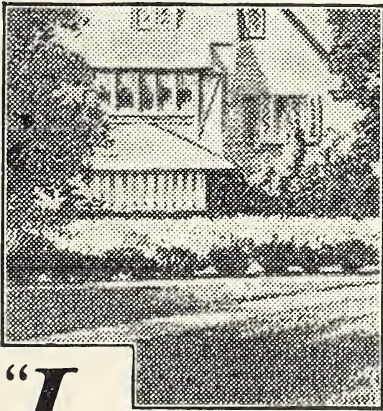
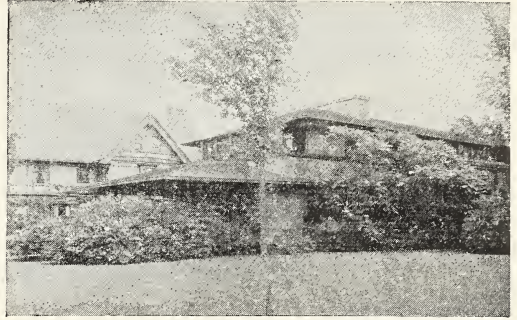
# Diamond "G" Lawn Grass and Lawn Grass Mixtures

**THE QUANTITY OF SEED REQUIRED**—There is no fixed rule, but a liberal sowing is always satisfactory while a light seeding is a waste of time and money and usually disappointing. A beautiful lawn may be produced in a few weeks, or it may not approach perfection for two or more seasons, according to the quantity of seed sown. As a general rule the following quantities will produce the best results: one quart to 250 square feet; 1 pound to 300 square feet; 5 pounds to 1500 square feet; 100 pounds to the acre.

**GRAHAM ROSS SPECIAL LAWN GRASS MIXTURE**—Thoroughly tried and analyzed for germination and purity. Composed of only the best evergreen grasses, and made up from only the finest and cleanest grades of seeds. This splendid mixture is composed of only the finest dwarf-growing grasses, absolutely free from weed seeds or other impurities, especially adapted and mixed to suit our climate.

Price: 1 lb., 55c, postpaid; 5 lbs., \$2.40, F. O. B. Great Falls.

**SHADY NOOK LAWN MIXTURE**—On nearly all lawns there are unsightly bare spots under the shade of trees, which have baffled all efforts to get into grass, but with this mixture there need be no further difficulty. It is a combination of fine, dwarf-growing, evergreen varieties, which in their wild or natural state are to be found growing in the woods or other sheltered and



## "Lawns .. rich green"

"With Vigoro our lawns have been thickly matted, a rich green all season," says W. L. Austin, head gardener, Frank O. Lowden Estate, Oregon, Ill. "Flowers were hardier, heavily blossomed."

Typical of the success with Vigoro! Complete, balanced, it supplies all elements of plant food required for early growth, perfect development. Clean, odorless! Costs only 10c to 20c per 100 sq. ft. Sold where you buy lawn and garden supplies. Order today!

# VIGORO

COMPLETE PLANT FOOD

A SWIFT & COMPANY product

Prepaid, 12 oz. pkg., 20c; 5 lb., 70c; 25 lbs., \$2.25. By express or freight, 50 lbs., \$3.75; 100 lbs., \$6.00.

shaded spots  
Ground that  
has been  
densely  
shaded by  
trees is frequently "sour" and if drainage is defective, it is apt to be covered with moss and coarse bog grasses. In such cases an application of slaked lime, at the rate of one bushel to each thousand square feet, or forty bushels to the acre, is an excellent corrective and sweetener, but the moss should be first removed by the use of a sharp rake.

Price: 1 lb., 75c, by parcel post prepaid; 5 lbs., \$3.00; 25 lbs., \$12.50, not prepaid. For larger amounts, ask for special quotation.

**KENTUCKY BLUE GRASS**—The old tried and true grass for lawns, also for pasture as it will grow under a variety of conditions and produce palatable and digestible green feed. Our Kentucky Blue Grass grades exceptionally high this year, weighing 24 lbs. to the bushel and is fine, bright, plump seed. Per lb., 60c, postpaid 65c. Write for prices in larger lots.

**TERRACE SOD MIXTURE**—A special mixture of grasses best suited for sowing on terraces, embankments and hillsides; grasses that produce long, strong, spreading roots, thus preventing heavy rains from washing them out. Per lb., 60c; 10 lbs., \$5.50, postpaid.

**NURSE CROPS FOR LAWNS**—Kentucky Blue Grass is the basis of all good grass seed mixtures and the one which will eventually occupy the land. It is very slow to germinate, frequently lying in the soil 5 to 6 weeks before sprouting. On this account we advise the general use of nurse crops. For this purpose we recommend oats, medium red clover and winter rye, to be used according to the suggestions below. For the fall nurse crop use winter rye.

**USE OUR MONTANA FERTILIZER** on your lawn this year and be assured a quick green luxuriant beautiful lawn.

**X-L WHITE DUTCH CLOVER**—An excellent pasture clover, forming in conjunction with Kentucky Blue Grass, the finest and most nutritious food for sheep and cows. It is extremely hardy and is universally used for lawns in the Northwest. Sow 5 to 8 pounds to the acre alone for pasture; for lawn, 1 pound to 400 square feet. Per pound postpaid 65c. Prices F. O. B., Great Falls. Five pounds \$2.75; ten pounds, \$5.00.

**MEADOW FESCUE OR ENGLISH BLUE GRASS**—Produce a large amount of feed of good quality all through the season. Is one of the earliest of spring grasses and persists latest. Does not freeze out or winter kill. Very desirable for use in meadow and pasture mixtures. Live stock relish it highly. Per lb., 45c; postpaid 55c; 5 lb., \$2.25, postpaid.

## SEED OF THE BENT GRASSES

**EUROPEAN MIXED BENT**—(So-called "Creeping Bent") is a mixture of Bent including true Creeping Bent, and a large percentage of Rhode Island Bent. It has been in high favor as a putting green grass. The important advantage of the Bent Grasses on lawns is that they like acid soils and can be fed with acid reacting fertilizers, such as Ammonium sulphate, the constant use of which discourages weeds. These seeds are somewhat to be preferred to the Creeping Bent Stolons for lawn purposes (but not for putting greens) because they do not grow so rapidly and the average home-owner can keep up with the mowing. Seed at the rate of 3 to 4 lbs. per 1000 sq. ft. 1 lb., \$1.25; 2 lbs., \$2.50; 3 lbs., \$3.70; 5 lbs., \$6.00; 10 lbs., \$11.50.

# Beautify the Home with Choice Flowers

One thing should be borne in mind, flower seed should never be planted in a cold, wet ground, as they are delicate and will not readily germinate in adverse weather conditions. They should never be planted deep and the ground should be thoroughly prepared. A little care and attention will work wonders in a flower garden. (A) Annual, (B) Biennial, (P) Perennial.

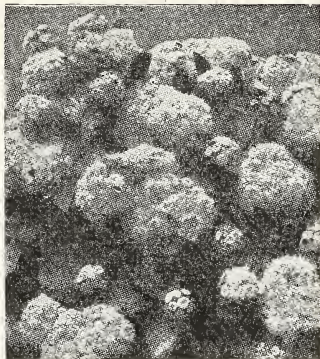
## AGERATUM (Floss Flower) (A)

An annual which is very hardy and of easy culture, fine for bedding, as it is literally covered with blossoms all Summer. Sow in boxes early in the Spring or out in the open when danger of frost is past.

**MEXICANUM** — Light blue about 2 ft. high, pkt., 10c.

## ALYSSUM (Sweet Alyssum) (A)

Hardy annual, particularly desirable for borders. Blooms early in spring in clusters of small pure white flowers. Delicate fragrance, useful in small bouquets. About 8 inches high. Pkt. 10c.



Ageratum

## AMARANTHUS (A)

An odd plant with many colors, being useful for tall borders and grouped with other foliage. The leaves and stems are of a different shade of red, blended with green, usually growing from 2 to 3 feet high. Sow seed early in the Spring.

**TRICOLOE** (Joseph's Coat)—Grows about 2½ feet tall, the inner foliage is of the blackest bronze, tipped with green, while the outer foliage is bright scarlet and gold. Pkt., 10c.

## ANTIRRHINUM (See Snapdragon) (A)

## AQUILEGIA (See Columbine) (P)

## ASTERS (A)

**QUEEN OF THE MARKET**—This type of Asters has proven very popular in this section, being a very early-flowering type. Plants are of the branching habit, bearing from 10 to 15 flowers of medium size, being very pretty.

**DARK BLUE**—A very beautiful color. Pkt., 10c.

**FLESH**—A new color and a beauty. Pkt., 10c.

**SCARLET**—An attractive red. Pkt., 10c.

**ROSE PINK**—A soft pleasing rose. Pkt., 10c.

**FINEST MIXED**—All shades. Pkt., 10c.



Aster

Per oz., any of the above, \$1.00.

**ASTER, IMP. CREGO or COMET GIANT**—Flowers large with very large, twisted, curled petals. Very fine as cut flowers; height, 18 inches. The colors are exquisite. Asters are especially popular for their beauty and lasting qualities. All colors mixed. Pkt., 10c.

**GIANT OSTRICH FEATHER**—The finest type of the Giant Comet, or Ostrich Feather type of Aster. Much larger than the Giant Comet, the petals longer, more twisted, and produced in greater abundance. Borne on long stems, they make cut-flowers par excellence.

Crimson, Dark Blue, Soft Pink and Mixed. Pkt. 10c

## CALIFORNIA GIANT ASTERS

This type of Asters is of the largest and most beautiful variety, often measuring 4 to 5 inches across the top of the flower. Their immense size and beauty as

well as their long and sturdy stems make them very attractive as cut flowers. This is something new in the Aster family and no garden will be complete without them. You cannot appreciate the beauty of them until you have grown them. Per pkt., 25c.

## GIANT ASTER SPECIAL 50c

To all lovers of this wonderful flower we offer one pkt. each of dark blue, flesh, rose pink, crimson, soft pink, scarlet and mixed. Regular price, 70c; postpaid 50c. Ask for Fancier's Collection of SUPERB GIANT ASTERS.

## BABY'S BREATH (See Gypsophila)

## BACHELOR'S BUTTON (See Centaurea)

## BALSAM (Touch-Me-Not) (A)

Hardy annual, one to two feet high. Brilliantly colored rose-like flowers, short-stemmed. Beautiful, floating on water when cut.

**DWARF MIXED**—Pkt., 10c.

## BEANS (See Scarlet Runner)

## BELLIS (See Daisy)

## BLUE LACE FLOWER (See Didiscus Coeruleus)

## BUTTERFLY FLOWER (See Schizanthus)

## CALENDULA (Pot Marigold) (A)

A much favored, old-fashioned annual. Beautiful cut flowers, one to stem. Bloom profusely. About 2 feet high.

**DOUBLE ORANGE KING**—Deep golden orange. Pkt., 10c.

**DOUBLE MIXED**—Orange, yellow and primrose. Pkt., 10c.

## CALLIOPSIS (A)

**BICOLOR SPLENDENS**—A bright free-blooming annual. Large golden yellow flowers with brown centers. Pkt., 15c.

## CALIFORNIA POPPY (See Eschscholtzia)

## CAMPANULA (See Canterbury Bell)

## CANDYTUFT (A)

Hardy annual. Indispensable for cutting and very effective in beds, masses or rockeries. 12 to 15 inches high. Bear profusely in a wide range of colors. Pkt., 10c.

## CANTERBURY BELLS (Campanula) (B)

Hardy biennial of about 3 feet. Produce beautiful bell-shaped or saucer-shaped flowers of rich color. Either single or double. Pkt., 10c; Oz., \$2.50.

Furnished in blue, Pink, White and Mixed.

## CARNATIONS (A-B)

Carnations are a great favorite with most people who take pride in their old-fashioned gardens. They have the most beautiful colors and are easily raised the first year from seed. Adapted to both pot and outdoor culture. Double dwarf mixed. Oz., \$2.00; pkt., 10c.

**GRENADE**—A beautiful dark red perennial carnation Will blossom first year if sown early. Pkt., 10c; 3 for 25c.



Carnation

**CASTOR BEAN (Ricinus) (A)**

Tall majestic plants for lawns or driveways. Palm-like leaves of glossy green and long spikes of scarlet or green prickly seed pods. Annual, 6 to 15 feet high. Pkt., 10c; Oz., 25c.

**CELOSIA (Cockscomb) (A)**

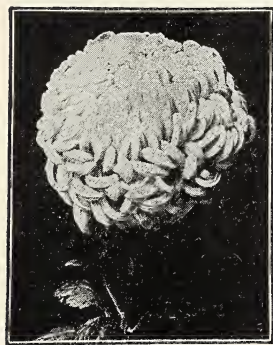
An old picturesque class of plants. They form the gayest possible decoration in beds and borders, growing best in light soils.

**CHILDSI** (Chinese Woolflower)—Plants about 2½ feet high, branch freely and produce large; globular, purplish crimson flowers, which resemble a ball of brilliant colored wool. Pkt., 10c; 3 pkts., 25c; oz., \$1.50, postpaid.

**CENTAUREA (Cornflower or Bachelor Button) (A)**

They are favorites in all sections of the country. A very hardy annual, will grow and do well everywhere; great for cut flowers.

**CYANUS** (Bachelor Button). Fancy Double Blue, Double Rose, Double White and Mixed. Pkt., 10c; 3 for 25c; oz., 50c.



Chrysanthemum

**DUSTY MILLER**—With silvery white, broad leaves. A very decorative plant for use in borders or for edging. A splendid effect obtained by planting them in beds with dark-leaved flowers. Pkt., 10c; 3 for 25c; oz., \$1.00, postpaid.

**IMPERIALIS** (Royal Sweet Sultan)—The best of all Sweet Sultans. Plants are very strong and bear giant flowers on stiff, long stems. Excellent for cutting. Last a week when cut. Mixed, all colors. Pkt., 10c; 3 pkts., 25c; oz., 75c, postpaid.

**CHRYSANTHEMUM (A)**

Hardy Summer-flowering annuals. Grown extensively for cut flowers. They are one of the effective and showy garden flowers. Grow about 2 feet high, bearing an abundance of daisy-like flowers. These annuals are not Winter-flowering sorts sold by florists, which are propagated from roots.

**DOUBLE MIXED**—Pkt., 10c; 3 pkts., 25c; oz., 50c, postpaid.

**SINGLE MIXED**—Pkt., 10c; 3 pkts., 25c; oz., 50c, postpaid.

**CHINESE WOOLFLOWER (See Celosia)****CLARKIA (A)**

This pretty and easily grown annual has been much improved in recent years. They do well either in sun or shade, growing 2 to 2½ feet high, with leafy racemes of double flowers, which all open in water when cut.

**ELEGANS DOUBLE MIXED**—A fine mixture containing all the colors. Pkt., 10c; ¼ oz., 20c.

**COIX LACHRYMA (See Job's Tears)****COLEUS (A)**

The most popular of all foliage plants. Easily grown from seed, but must be started in a box in the house or hotbed, as the seed is very fine and when sown should be scarcely covered but must be kept moist. Tender annual.

**MIXED COLORS**—Pkt., 15c; 1-8 oz., 85c.

**COLUMBINE (P)**

This is one of our finest hardy perennials, flowering the second year from seed and worthy of a place in every garden. (See illustration).

**SINGLE MIXED**—All colors. 2 feet. Pkt., 10c; ¼ oz., 25c; oz., 75c.

**DOUBLE MIXED**—All colors. 2 feet. Pkt., 10c; ¼ oz., 25c; oz., 75c.

**COERULEA** (Rocky Mountain Columbine)—1 to 2 ft. April-July. One of the most beautiful of our native American flowers. Sepals, deep blue; petals, white. Pkt., 10c.



Delphinium

**CONVOLVULUS MAJOR (See Morning Glory)****COREOPSIS (P)**

**LANCEOLATA GRANDIFLORA FL. PL.**—(Double Flowering Coreopsis). This new double and semi-double form is just as easy to grow as the single and the extra petalage adds a further charm to the flower. Pkt., 15c.

**COSMOS (A)**

A hardy and fast growing annual plant 4 to 5 feet high with feathery green foliage, producing long, graceful stems with flowers similar to single dahlias. Do best in medium rich soil. Plant in rows about two feet apart and thin out to 4 or 5 inches in row.

**EARLY GIANT FLOWERING**—Single Mixed. Pkt., 10c; 3 for 25c.

**GIANT FLOWERING**—Double Mixed. Pkt., 10c; 3 for 25c.

**DAHLIAS (P)**

The double sorts will bloom the first season if the seed is sown before the beginning of April; the single sorts will bloom from seed sown in the open ground as late as June, although an earlier start is better.

**DOUBLE MIXED**—This type is very desirable. Many colors. Pkt., 10c; ¼ oz., 40c.

**DAISIES (P)**

**SHASTA DAISY**—Well known perennial about two feet high, beautiful flowers with pure white petals, with golden center. Fine for cut flowers. Pkt., 10c; 3 pkts., 25c; oz., \$2.25, postpaid.

**ENGLISH DAISY** (Bellis Perennis)—Charming little plants for edging and borders. Also used for low beds. Double mixed, pkt., 10c; 3 pkts., 25c; oz., \$2.00, postpaid.

**S W A N R I V E R DAISY** (Brachycome)—Charming little plants that delight in a sunny situation, fine for edgings; color light blue. Pkt., 10c; 3 pkts., 25c; oz., \$1.50, postpaid.



Daisy

**ORANGE DAISY (See Dimorphoteca)****DELPHINIUM (See Larkspur)**

We wish to call particular attention to Our New Strain of Delphinium Hybrids, a picture of which is found on the outside front cover page. Without doubt, one of the showiest flowers yet introduced. Large pkt., 25c; 3 for 60c. Plants, each 35c; 3 for \$1.00.

**DIANTHUS (See Pinks)**

To have joy one must share it, happiness was born a twin.

**DIDISCUS (Blue Lace Flower) (Coeruleus) (A)**

This pretty and interesting annual blooms most profusely from July till November; their exquisite pale lavender blossoms are excellent for cutting; plants grow about 18 inches high, and have as many as 50 flowers open at one time. Pkt., 10c; 3 for 25c; oz., \$1.00, postpaid.

**DIGITALIS (Foxglove)**

These produce spires of blossoms 3 to 5 ft. high. Stately old garden favorites for garden, shrubby borders and naturalizing in suitable places.

**GLOXINIAEFLOREA, WHITE**—Flowers shaped and spotted like a gloxinia. 2-4 ft. June-July. Seeds, pkt., 10c.

**DIMORPHOTHECA**

**AURANTIACA** (Golden Star of the Veldt)—1 ft. Rare and very showy annual from South Africa, having daisy-like flowers of a glossy salmon-orange shade with black central ring. Pkt., 10c.

**DUSTY MILLER (See Centaurea)****ESCHSCHOLTZIA (California Poppy) (A)**

Columbine

This is the state flower of California. Is very desirable for every flower garden.

**BALLET GIRL**—Carmine and creamy white. Pkt., 10c; 3 for 25c.

**SCARLET BEAUTY**—A very deep scarlet. Pkt., 10c; 3 for 25c.

**MIXED**—The above colors and many others in well-balanced mixture. Pkt., 10c; 3 pkts., 25c; oz., 40c, postpaid.

**EUPHORBIA (A)**

Strong growing annuals for beds of tall-growing plants or mixed borders; the flowers are inconspicuous; the foliage however is exceedingly ornamental.

**HETEROPHYLLA** (Mexican Fire Plant)—Annual poinsettia resembling in habit and color the beautiful hothouse poinsettia. About mid-summer the center top leaves of each branch turn orange-scarlet. Pkt., 10c.

**VARIEGATA** (Snow on the Mountain or Mountain Spurge)—2 ft. Remarkably distinct plant; very showy with its foliage edged white and green. Pkt., 10c.

**FORGET-ME-NOT (A)**

A pretty little old-fashioned flower, producing its blooms in early summer. Quite hardy once it is established. Pkt., 10c; oz., 75c.

**FOUR O'CLOCK (Marvel of Peru) (A)**

A beautiful old-fashioned variety of an erect bushy habit, producing in profusion an abundance of highly colored, tube-shaped flowers that open about 4 o'clock in the afternoon. Very desirable for backgrounds of a flower garden. Blooms continually until frost; grows about 2 feet high. Mixed colors, pkt., 10c; oz., 30c, postpaid.

**GAILLARDIA (Blanket Flower) (A)**

**GRANDIFLORA**—One of the very best perennials, producing a continual supply of those tawny shades so highly prized. Flowers frequently measure 3 inches in diameter, on slender stems 2 ft. long. A center of dark maroon, thickly bordered with petals of orange yellow, beautifully ringed with circles of crimson-red and maroon. Seed, pkt., 10c.



Gaillardia

**LORENZIANA DOUBLE PERFECTION MIXED**—Large, handsome heads of double quilled flowers in rich shades of red and yellow. Pkt., 10c.

**GERANIUM 1 to 2 ft (A)**

These grow readily from seed the first year and produce blooming plants the first summer. There is a great deal of pleasure in watching them develop from seed, and there is always the chance of thus securing something new.

**ZONALE VARIETIES**—Saved from a choice collection. Pkt., 10c.

**GYPSOPHILA (A)**

Pretty free-flowering, elegant plants, succeeding in any garden soil. Their misty white panicles of bloom are largely used for mixing with other cut flowers. 10c.

**HELIANTHUS (See Sunflower)****HELICHRYSUM (Strawflower) (A)**

Helichrysums are an ornament to the garden when growing, and are everywhere prized for the winter decoration of vases, and for durable bouquets. Flowers intended for drying should be gathered when partially unfolded and suspended with their heads downward in a cool place.

**GOLDEN BALL**—Yellow. Pkt., 10c.

**SPECIAL MIXTURE**—This mixture of Helichrysium is an improved large-flowered strain containing many new and exquisite shades. Pkt., 10c.

**HELIOTROPE (P)**

A half-hardy perennial flowering during the entire season. Seed planted in early Spring will make fine plants for Summer blooming. The robust plants produce an abundance of delightful, perfumed flowers which makes them most desirable for bouquets. Pkt., 10c; 3 pkts., 25c; oz., \$2.50, postpaid.

**HOLLYHOCKS (P)**

This splendid old-fashioned perennial is almost unlimited in its production of brilliantly colored flowers, ranging from deep yellow, red, to pure white. The seed should be planted in early Spring and then thinned and planted in desired places. Double varieties are hardy perennials and should be set out 4 to 5 feet apart.



Hollyhock

**DOUBLE MIXED**—Pkt., 10c; 3 for 25c; oz., \$1.50, postpaid.

**JOB'S TEARS (Coix Lachryma) (A)**

An annual ornamental grass, with broad, corn-like leaves and hard shining seeds of peculiar appearance, giving the plant its name. Two feet. Pkt., 10c; 3 for 25c.

**KOCHIA TRICHOPHYLLA (Mexican Fire Bush, or Summer Cypress) (A)**

A quick growing foliage or hedge plant, very symmetrical and attractive in summer and fall. The foliage is as fine as moss and of clear, bright green color. Early in the fall innumerable little flowers appear and the bush takes on a deep red tinge. Sow outdoors early in spring, covering one-fourth inch deep; grows about two and one-half feet high. Pkt., 10c; 3 for 25c.

**LATHYRUS LATIFOLIUS (See Sweet Peas Everlasting)****LARKSPUR (A)**

One of the most popular annuals, producing long stems of double flowers with all shades and colors.

**DOUBLE TALL STOCK FLOWERED**—Dark blue.

**DOUBLE TALL STOCK FLOWERED**—Lustrous Carmine.

**DOUBLE TALL STOCK FLOWERED**—Shell pink.

**DOUBLE TALL STOCK FLOWERED**—Lilac.

**DOUBLE TALL STOCK FLOWERED**—Bright Rose.

**DOUBLE TALL STOCK FLOWERED**—Finest Mixed.

All Pkt., 10c; 3 for 25c.

**LINUM (Grandiflora Rubrum "Scarlet Flax") (A)**

A very effective and showy bedding plant having fine foliage and delicate stems. The flowers are a brilliant scarlet crimson. Plant about one foot apart. Pkt., 10c.

**LOBELIA (A)**

A very valuable and beautiful dwarf-growing plant, delicate drooping habit and profusion of charming little blue and white flowers.

**CRYSTAL PALACE COMPACTA** — Deepest blue dark foliage. Pkt., 10c.

**LUPINUS (A)**

Lupinus

Free flowering, easily grown annuals, with long, graceful spikes of rich and various colored pea-shaped flowers; valuable for mixed borders, beds and for cutting; prefers a little shade.

**HARTWEGII, WHITE** — Pure white flowers. Pkt., 10c.

**MARIGOLD (A)**

Well known garden favorite of quick growth and very free-flowering habit. Seed should be sown in shallow drills in the open garden early in the Spring after danger of frost is over and the trees are well out in leaf. Plants for early blooming may be started in boxes, placed in a sunny window in March, and the young plants grown in pots until the weather is warm enough to set outdoors.

**DOUBLE AFRICAN MARIGOLD** — Splendid for beds or borders; the tall varieties grow about 3 feet high, the dwarf sorts 18 to 24 inches.

**ORANGE PRINCE** — A tall growing variety, height 2½ ft., bearing large, perfect double-quilled flowers of a rich deep golden-orange color; the finest of all and very showy. Flowers continuously from early summer till hard frost. Pkt., 15c.

**DOUBLE MIXED** — African varieties containing all of the colors, 2 to 3 ft. ¼ oz., 25c; Pkt., 10c.

**MATRICARIA**

**CAPENSIS FL. PL.** (Feverfew) — 3 ft. Neat, small, double white flowers, well adapted for bedding and cutting. They are perennials in mild climate, but in our latitude are treated best as annuals. Pkt., 10c.

**MATTHIOLA** (See Sweet Scented Stock)

**MARVEL OF PERU** (See Four O'Clock)

**MEXICAN FIRE BUSH** (See Kochia)

**MIGNONETTE** (Reseda Odorata) (A)

Twelve to eighteen inches. If successive sowings are made, its fragrant, modest colored flowers may be gathered outdoors until November. Pkt., 10c; 3 pkts for 25c.



Phlox

**MORNING GLORY (A)**

A handsome showy climber of easy culture. Flowers are most brilliant in the morning. Hardy annual. Comes in Hyacinth Blue, Japanese Mixed and Brazilian Mixed. Pkt., 10c; oz., 30c.

**MOURNING BRIDE (Scabiosa) (A)**

A most beautiful flower which blooms abundantly. Richly colored and fragrant. Desirable for cutting as well as for beds and borders. Hardy annual about 2½ feet high. Mixed colors. Pkt., 10c.

**MYOSOTIS (See Forget-Me-Not)****NASTURTIUMS (A)**

**“X-L” SUPERB FLOWERING CLIMBING** — We are proud of this mixture as it contains all of the beautiful colors and shades. Specially adapted for covering Verandas, Fences and Stumps.

**“X-L” GIANT FLOWERING TOM THUMB** — When planted in beds or masses the brilliant effect of these splendid flowers is scarcely surpassed by any of our finest bedding plants. The colors range from deep crimson, to yellow, buff and spotted. Pkt., 5c; oz., 15c; ¼ lb., 35c; ½ lb., 60c; 1 lb., \$1.00, postpaid.

**NICOTIANA (Affinis) (Tuberose-Flowered Tobacco) (A)**

Pansy

Delightfully sweet-scented tubular flowers, blooming continually; annual, two to three feet high. Mixed pkt., 10c.

**PANSIES (A)**

The strains of Pansy seed we are offering distinguish themselves by their brilliancy of shading. They are of robust growth, forming compact bushes with large, healthy looking foliage.

**GIANT TRIMARDEAU MIXED** (largest) — Pkt., 25c. **CHOICE MIXED** — Pkt., 10c.

**LATHYRUS LATIFOLIUS (Perennial Sweet Peas)**

Very decorative climbing vines of the Pea family, for growing on fences, trellis, etc., as floral screens and for cutting. Blooms all summer.

**CHOICE MIXED** — Per pkt., 10c; ½ oz., 50c; oz., 85c.

**PETUNIAS (A)**

No other annual requires as little care as the Petunia, and yet rewards the gardener with such an enormous mass of gay blooms from June until November.

Petunias are easily grown from seed sown early in the spring when the trees are starting out in leaf. For extra early blooming seed should be started indoors, or in boxes or pots, early in March.

**CHOICE MIXED** — Per pkt., 10c.



Petunia

**PHLOX DRUMMONDI (Flame Flower) (A)**

The annual Phloxes are dazzling in effect, particularly so when sown in masses of ribbon beds. The plants grow about one foot high.

**ROSE** — Dark eye ----- Pkt., 10c 3 for 25c  
**BLUE**, well striped ----- Pkt., 10c 3 for 25c  
**PALE YELLOW** ----- Pkt., 10c 3 for 25c  
**BEST MIXTURE** ----- Pkt., 10c 3 for 25c

**PINKS or DIANTHUS (A)**

A popular annual variety known to nearly all. The flowers are distinguished for their brilliancy, contrasting variety of colors appearing in each flower. The stripes and spots make the clusters stand out distinctly.

**PINKS, CHINA DOUBLE MIXED** — Blooms in clusters, the flowers very double and in a large range of colors. Pkt., 10c.

**VIGORO**  
*Specially prepared plant food*

## POPPIES

This well known hardy annual and perennial, flowers in the greatest profusion throughout the Spring and Summer. Both the single and double varieties are very desirable for bedding and borders. The flowers are remarkable for their large size, delicacy of tissue and wide range of dazzling colors. Can be sown in the Spring or Fall. We recommend Fall as the best time to sow, as Poppies stand a great deal of cold weather.

**ORIENTALE** (Oriental Poppy) (P)—For gorgeous coloring the Oriental Poppies have few rivals among hardy plants. They produce magnificent effect in shrubberies and herbaceous borders. 3 ft. May-June. Pkt., 10c; 3 for 25c.

**ICELAND** (P)—Graceful, delicate variety, with white, orange and yellow single blossoms, the petals resembling crumpled tissue paper. Excellent for cutting. Mixed varieties. Pkt., 10c; 3 pkts., 25c.

**SHIRLEY** (A)—The most beautiful type of Poppies, having soft, hairy foliage and immense flowers. Single blossom white, pink, apricot, and shades of red and scarlet. Petals dainty and look as if made of crepe paper. Pkt., 10c; 3 pkts., 25c; oz., 50c, postpaid.

**PEONY FLOWERED**—Large, showy double fringed flowers of various colors. Pkt., 10c; 3 pkts., 25c; oz., 50c, postpaid.

**DOUBLE CARNATION FLOWERED**—Mixed, pkt. 10c; 3 pkts., 25c; oz., 50c, postpaid.

**TULIP** (Glaucum)—Large tulip-shaped flowers of dazzling scarlet; not unlike a Scarlet von Thol Tulip. Pkt., 10c.

## PORTULACA (Ross Moss) (A)

A very attractive low-growing annual having a spreading habit; used in borders, beds and rockeries.

**DOUBLE MIXED COLORS**—Pkt., 10c; 30 pkts., 25c; oz., \$3.00, postpaid.

## PYRETHRUM (A)

A fine hardy plant with large daisy-like flowers. Blooms during May and June. A free bloomer and flowers most excellent for cutting. Foliage and flowers both very ornamental. Large flowering Double and Semi-Double Mixed. Pkt., 20c.

## RED HOT POKER (See Tritoma)

## SALPIGLOSSIS (A)

The quaint, funnel-shaped flowers somewhat resemble those of the Petunia; beautiful range for colors. Finest Mixed, pkt., 10c.

## SALVIA (Flowering Sage) (Splendens) (A)

—Splendens—Sold also as "Splendens Bonfire". The large, brilliant scarlet flowers are in very striking contrast with the rich, dark green background of dense foliage. This variety is most generally used in parks and on extensive lawns as it is more vigorous than the dwarf varieties. One of the most distinct and effective bedding plants. Two and one-half to three feet high. Pkt., 15c.



Salvia

## SCABIOSA (See Mourning Bride)

## SCARLET FLAX (See Linum)

## SCHIZANTHUS (Butterfly Flower) (A)

Hardy, growing one and one-half to two feet high and covered with bright, showy, butterfly-like blossoms. Large flowering. Mixed pkt., 10c.

## SNAPDRAGON or ANTIRRHINUM (P)

One of the most useful and showy plants. Of almost every shade and color. They have recently been much improved and are now really magnificent. Hardy perennial. Tail.

**GLORIO**—A beautiful shade of rose pink. Pkt., 10c; 3 for 25c.

**GOLDEN QUEEN**—A bright yellow. A new shade. Pkt., 10c; 3 for 25c.

**EMPRESS**—A brilliant crimson; very showy. Pkt., 10c; 3 for 25c.

**SPECIAL MIXED**—All colors. Pkt., 10c; 3 for 25c.

## STATICE (A)

Our annual Statice is not only a beautiful flower in the border, but dries retaining its true colors, which are rare among everlasting, and have come to be indispensable in making winter bouquets.

**CHOICE MIXED**—Pkt., 10c; 3 for 25c.

## STOCK (Gillflower) (A)

Almost indispensable where a fine display of flowers is wanted. Particularly fine for edgings, bedding and pot culture. Our improved variety produces dense spikes of very fragrant and beautiful rosette-like double flowers in a wide range of colors.

**IMPROVED GIANT MIXED**—Pkt., 10c.

**EVENING-SCENTED**—A. 15 in. Lilac flowers which in the morning, evening and after a shower emit a delicious perfume perceptible at a considerable distance. Pkt., 10c; 1 oz., 30c; ¼ lb., 80c.

## SUNFLOWERS (A)

**DOUBLE CHRYSANTHEMUM FLOWERED**, or **JAPANESE**—The most beautiful of all double sunflowers. Perfectly double; bright golden yellow with long fringed petals. Pkt., 10c.

**SUNFLOWER**—Giant Russian—Immense single flowers yellow with large black center, 6 feet. Pkt., 5c.

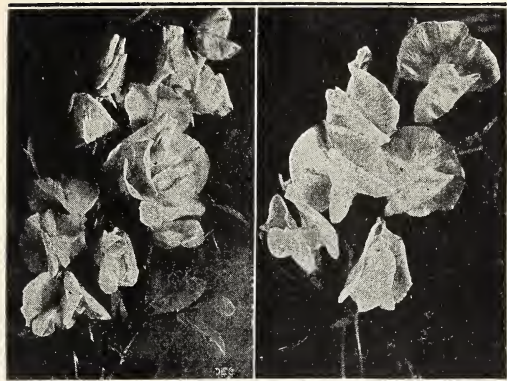
## SWEET PEAS

Sow early, the latter part of March or first week in April. The ground must be dug deeply. Some well-rotted manure mixed in with the soil will increase the size of the flowers. Make a trench eight inches deep in which sow the seed and cover two inches. As the plants continue to grow gradually fill in the trench with the rich soil. Thin out to four inches apart and stretch a wire netting the length of the row for support. For continuous bloom keep the flowers cut and cultivate often. In dry weather, water thoroughly.

(No Flower Garden is complete without one or more of our collections on our Back Cover page. Six large pkts. for 50c postpaid. All of these flowers can be furnished in started plants.)



Spencer Sweet Peas



Sweet Peas

### GRAHAM AND ROSS SUPERB SPENCER MIXED

This mixture contains the large and superb varieties of the most beautiful types of Spencer Sweet Peas, blended in the proper proportions which gives it the most desirable range of colors and the finest form. Pkt., 10c; oz., 50c;  $\frac{1}{4}$  lb., \$1.50.

**SPENCER MIXED**—Our regular Spencer Mixture contains a wide variety of colors having at least ten distinct colors but not as much care has been given in selecting the colors so as to get the blended range of coloring found in our SUPERB MIXTURE. Pkt., 10c; oz., 25c;  $\frac{1}{4}$  lb., 85c.

**K-L FINEST ECKFORDS MIXED**—This included all of the best Eckfords of the Grandiflora type and also a sprinkling of what is known as the California Giants. It has every imaginable color and shade. Pkt., 5c; oz.,  $\frac{1}{4}$  lb., 65c; 1 lb., \$2.00, postpaid.

### SPENCER SWEET PEAS IN NAMED VARIETIES AND STRAIGHT COLORS

**AUSTIN FREDERICK IMPROVED**—We consider this new variety by far the best lavender yet introduced. Pkt., 10c; oz., 30c;  $\frac{1}{4}$  lb., 90c.

**CRIMSON KING**—A rich deep crimson. By far the best red yet. Pkt., 10c; oz., 30c;  $\frac{1}{4}$  lb., 90c.

**DOBBIE'S CREAM**—Very deep cream yellow. Pkt., 10c; oz., 30c;  $\frac{1}{4}$  lb., 90c.

**EDNA MAY IMPROVED**—A very early pure white. Pkt., 10c; oz., 30c;  $\frac{1}{4}$  lb., 90c.

**HERCULES**—A rich rosy pink flower, very waved on long stems. Pkt., 10c; oz., 30c;  $\frac{1}{4}$  lb., \$1.00.

**KING WHITE**—Remarkable for the glistening purity of the whiteness and the perfect finish of the flower. Pkt., 10c; oz., 30c; 1 lb., 90c.

**MARY FICKFORD**—Dainty cream suffused salmon. This is a new variety and indescribably beautiful. Be the first to plant this pretty flower in your neighborhood. Only a small amount of seed available. Pkt., 15c; oz., 40c;  $\frac{1}{4}$  lb., \$1.10.

**MATCHLESS**—We believe that this new Sweet Pea is well named. A beautiful shade of pure, rich cream. Pkt., 10c; oz., 30c;  $\frac{1}{4}$  lb., \$1.00.

**MRS. TOM JONES**—Bright delphinium-blue. The flowers are very large and of great substance, beautifully waved, and invariably come four on a stem of great length. A first-class rich blue has long been wanted and now we have it in this charming and beautiful novelty. Pkt., 10c;  $\frac{1}{2}$  oz., 20c; oz., 35c;  $\frac{1}{4}$  lb., \$1.00.

**NUBIAN**—The only real pure chocolate color found in Spencer Sweet Peas. Try a package this year and you will never plant your garden again without this color. Pkt., 10c; oz., 30c;  $\frac{1}{4}$  lb., \$1.10.

**PICTURE**—The flowers are simply enormous, are well waved and exquisitely frilled on the edges. The color is a blend of cream and pink shades altogether different from the ordinary pale cream-pinks, and having a deeper flush of color on the wings, which is particularly effective. This pink shade is brought out by the creamy flush in the center of the standard. The flowers are exquisitely arranged on long strong stems and four flowers on a stem. Pkt., 10c;  $\frac{1}{2}$  oz., 20c; oz., 35c;  $\frac{1}{4}$  lb., \$1.00.



### PINKIE

We consider Pinkie one of the finest novelties we have ever offered. Pinkie is larger than any other variety we have seen in the deep pink class. The beautiful rose pink tone of the flowers is free from the blueness of other deep pinks and in a bunch it is glorious. It is a most vigorous grower, a continuous cropper with long stout stems, and blooms over a longer period than other varieties. The flowers are nicely waved and exceedingly large. No garden is complete without this new and popular variety. Pkt., 25c;  $\frac{1}{2}$  oz., 50c; 1 oz., 85c.

**ROYAL SCOT**—A beautiful new shade hard to describe. A glowing orange scarlet. Very attractive. Pkt., 10c; oz., 30c;  $\frac{1}{4}$  lb., 90c.

**YOUTH**—Extra large white with pink picotee edge which makes it very distinct and attractive. Pkt., 10; oz., 30c;  $\frac{1}{4}$  lb., 90c.

### VARIETY ASSORTMENT SPENCER SWEET PEAS, \$1.00

We offer 12 of our regular 10c pkts. of Spencer Long Stem Sweet Peas, each a distinct shade for \$1.00 postpaid. Regular price, \$1.20.

### PERENNIAL SWEET PEAS

Easily grown, hardy with small-er flowers and lacking the fragrance of Sweet Peas, but producing for many weeks a succession of blossoms in clusters of eight to ten each. Only a few flowers can be expected the second season but in the third and fourth, the plants then being well established, an abundance of foliage and blooms is afforded. The plants die down late in the fall and start again in the spring.

Sow the seed out doors early in spring, using well prepared soil and covering the seed about one inch deep with fine soil firmly pressed down. Pkt., 10c;  $\frac{1}{2}$  oz., 50c; oz., 85c.



### SWEET WILLIAM (P)

A well known, extensively used sweet-scented perennial for bedding and borders. Produces a succession of flower clusters brilliantly colored. One of the most desirable display plants, very easily grown. Hardy perennial, 1 $\frac{1}{2}$  feet high. Don't fail to order some of these. Pkt., 10c.

### TRITOMA (Red Hot Poker) (A)

A beautiful showy border plant, producing handsome red or orange colored flowers on long stems. No other plant will produce such an abundance of blooms as the Tritoma. This flower is a rare beauty and will more than repay you for the little trouble it may cause. Pkt., 10c.

### THUNBERGIA (A)

A beautiful trailing plant with very attractive flowers. It will creep over the ground, making a very pretty mat effect of foliage and flowers. All colors of yellow, buff, orange to pure white, with jet black centers or eyes, very attractive. Commonly called Black-eyed Susan. Makes a good pot plant for Winter blooming.

**MIXED COLORS**—Pkt., 10c.



Sweet William

## VERBENA (A)

This well known annual is very desirable for massing in beds and suitable also for borders and window boxes. Large clusters of showy flowers are borne in succession throughout a long season, until frost. Valuable for bouquets and table decorations. Wide range of colors. Red, White, Purple with White Eye, Pink, Blue, Italian Striped, Mixed. All Mammoths are very beautiful. Pkt., 10c.

Pure Purple ..... Pkg. 10c  
Blue Shades ..... Pkg. 10c

## ZINNIAS (A)

**ZINNIAS** (*Elegans Grandiflora Double*) (Youth and Old Age)—Is one of the most brilliant and showy annuals, and has long been a general favorite. The seed can be sown early in the hotbed and transplanted, or sown later in the open ground. They come in flower early in the summer and keep on blooming until first frost. Mixed, pkt., 10c.

Pure Orange ..... Pkg. 10c  
Light Pink ..... Pkg. 10c  
Burnt Orange, a new shade ..... Pkg. 10c  
Deep Crimson ..... Pkg. 10c  
Blood Red ..... Pkg. 10c  
Mixed, all above shades and others ..... Pkg. 10c



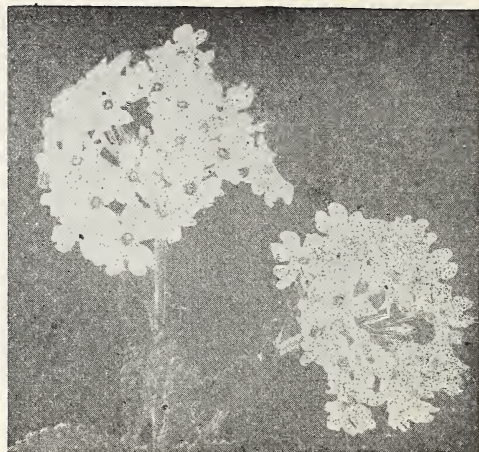
**"Flowers...**  
**larger, more blossoms"**

"I am very pleased with Vigoro's results on all my plants," writes E. A. Heins, 112 Clarewill Ave., Montclair, N. J. "They were larger, had more blossoms than in previous years."

Easy, success like this, with Vigoro! Better lawns, vegetables, shrubs, trees, too. Complete, *balanced*, Vigoro supplies *all* elements of plant food for sturdy growth, full development. Clean, *odorless*! Costs only 10c to 20c per 100 sq. ft. Sold where you buy lawn, garden supplies. Order today!

**VIGORO**  
COMPLETE PLANT FOOD

A SWIFT & COMPANY product  
Prepaid, 12 oz. pkg., 20c; 5 lb., 70c;  
25 lbs., \$2.25. By express or freight, 50  
lbs., \$3.75; 100 lbs., \$6.00.



Verbena

## VIOLA ODORATA (See Violet) (P)

This variety is suited for forcing under glass and is perfectly hardy. Covered with beautiful blue flowers in early spring and wonderfully scented. They make a wonderful edging plant for the hardy border or garden. Will remain in bloom from May until Sept., providing they are sheared several times during the blooming season so that the flowers do not go to seed. Per pkt., 15c.

RAINBOW COLLECTION GIANT FREE-  
FLOWERING ZINNIAS 50c

Zinnias are one of the showiest of all annual flowers and we have taken great care to choose only those colors that will add charm to any garden. One regular 10c pkt. of the following: pure orange, light pink, burnt orange, deep crimson, blood red and California Giants. Regular price 65c; postpaid price 50c.

## ZINNIAS (California Giants 3 to 4 ft.)

They are larger than Colossal and a cross between them and the Dahlia Flowered types. They have smaller flat centers with more loosely placed petals. The petals are decidedly imbricated and the flower from bud to full bloom presents a graceful appearance. Mixed pkg. 15c; ¼ oz. 50c; 1 oz. \$1.50.



Zinnia

## Vines From Seeds

### BALLOON VINE (Love-in-a-Puff) (A)

A rapid growing annual climber; succeeds best in light soil and warm situation; flowers white, seed vessels like miniature balloons. Pkt., 10c; oz., 40c.

### BEANS (Scarlet Runners) (A)

A great favorite, not only as an ornamental climber but for the delicious edible beans which succeed the bright scarlet sprays of pea-shaped blossoms. Pkt., 5c;  $\frac{1}{4}$  lb., 20c;  $\frac{1}{2}$  lb., 35c; lb., 60c.

### BEAN HYACINTH (Australian Pea Vine) (Dolichos) (A)

This really beautiful climbing plant is of quick growth; foliage is handsome and the clustered spikes of beautiful purple and white flowers are borne in great profusion. The shining purple seed-pods are also very ornamental. Tender annual, growing six to eight feet. Seed should be sown where plants are desired, in as warm and dry a spot as possible. Mixed, pkt., 10c; oz., 25c.

### BOSTON or JAPANESE IVY (Ampelopsis Veitchii) (P)

A rapid creeper with lovely green foliage which turns red in fall. Excellent for covering walls, outhouses, etc. Height 50 feet. Pkt., 10c; oz., 50c.

### CANARY BIRD VINE (P)

A beautiful climber; flowers a bright golden yellow, bearing a fanciful resemblance to birds with expanded wings. Pkt., 10c.

### CARDINAL CLIMBER (A)

This is a great favorite amongst climbers and attains a height of 15 feet. The leaves resemble those of a fine Japanese maple and completely cover the vines. The bright scarlet flowers are not large but grow in such profusion as to completely cover the vines. Pkt., 10c.

### CYPRESS VINE or IPOMOEA QUAMOCLIT (A)

A climber of rapid growth, having handsome fern-like foliage and a profusion of bright, attractive flowers. Mixed, pkt., 10c; oz., 25c.

### COBOEA SCANDENS (A)

One of the handsomest and most rapid growing of the annual climbers. It climbs 30 feet in a season. The flowers are bell-shaped. Very prolific and perfectly hardy. The vine is always clean of insects. Mixed, pkt., 10c.

### JAPANESE KUDZU VINE (A)

The Kudzu vine comes from Japan, the land so productive of curious and ornamental flowers. It is a beautiful climber, remarkable for its great vigor of growth



Morning Glory

and its handsome flowers. The blossoms are large and in panicles somewhat like the Wistaria, but larger in size and with better clusters. The color is a pleasing shade of purple. The foliage is luxuriant. The vine is extremely rapid and dense in growth, perfectly hardy; fine for arbors, verandas, etc. Pkt., 10c.

### GOURDS (20 ft.) (A)

These are desirable in many places where an immense amount of vine is wanted quickly. The blooms of some are quite striking and handsome. With many sorts the fruit is unique and ornamental and often useful. The small fancy gourds are excellent toys for children, while the larger gourds may be used as dippers, sugar troughs and bowls. Mixed varieties, Pkg. 10c;  $\frac{1}{2}$  oz. 20c; 1 oz. 30c.

### WILD CUCUMBER

*Echinocystis Lobata*. This is the quickest growing climber on our list. Grows wild self-sown, in many parts of the west. It is thickly dotted over with pretty, white fragrant flowers, followed by an abundance of ornamental and prickly seed pods.  $\frac{1}{4}$  lb., 75c; 1 oz., 25c;  $\frac{1}{2}$  oz., 15c; pkt., 10c.

### JAPANESE HOP (Humulus) (A)

Variegated Japanese Hop. A charming climber, attaining a growth of 20 to 25 feet in a few weeks. The leaves (6 to 7 inches across) are beautifully marked and variegated with white yellowish green and dark green. Not injured by insects or by heat, and the vine retains its beauty until frost. Pkt., 10c.

### BIGNONIA RADICANS (Trumpet Vine)

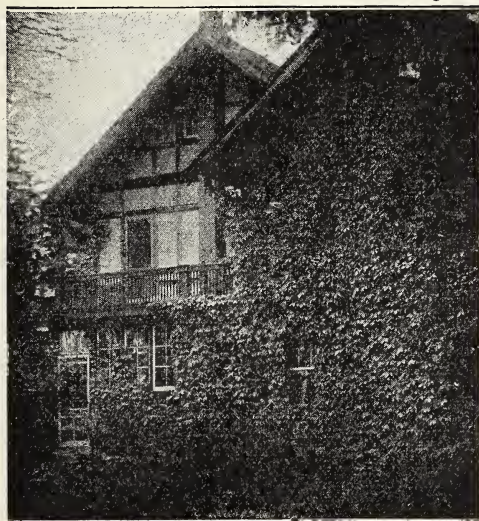
A robust tall climber with great leathery trumpet-shaped flowers of brilliant orange-scarlet which last a long time in the summer. A very rapid and hardy grower. Useful for covering unsightly places, stumps, or wherever a showy flowering vine is desired. Pkt., 10c.

### MORNING GLORIES

A handsome showy climber of easy culture and suitable for covering arbors, windows, trellises, old stumps, etc., if support be given the vines. Hardy. Seed is usually sown outdoors early in spring in row where plants are to remain. Well pulverized soil should be used and the seed covered one-half inch deep; thin four to six inches apart. If very early blooming is desired, seed may be started indoors and transplanted. Give some support such as strings or cord to the vines as soon as they begin to run and they will often exceed ten feet in height before the season is over.

**MORNING GLORY (A)** (*Convolvulus Major Ipomoea Purpurea*)—Tall, fine mixed, a great variety of colors of the popular old-fashioned sorts. Pkt., 10c; oz., 35c.

**RESURRECTION PLANTS** are truly named and one of the most interesting plants there is to watch. They resemble brown bunches of cedar leaves but when placed in water they almost immediately become a dark green, bushy plant. They then may be taken out of the water and will return to its former condition. They may be "planted" and dried for years without killin gthem. Price, 2 plants for 35c, post-paid.



Boston Ivy

# Flower Plants, Perennials All Prices Postpaid.

**NOTICE**—We will furnish all of the perennials in 3 inch pots or from cold frames. The cold frame plants have one year's growth and will all bloom the same season as planted. We recommend the cold frame plants.

**ACHILLEA**—Called the Pearl. Height 2 ft. Blooms very early and keeps well after cutting. Plants, each 30c; per doz., \$2.75. Large field grown clumps, each \$1.00 and \$2.00.

**ANCHUSA** (Italica Dropmore)—One of the finest blue plants we know. Very free flowering and a continuous bloomer from June on. Height 3 to 4 ft. Each 30c; dozen \$2.75.

**ANTHEMIS** (Golden Marguerite)—Blooms from July until Fall. Color golden yellow. Flowers hardy and sweet-scented. Each 30c; doz., \$2.60.

**AQUILEGIA** (Columbine)—Height 2 feet. Blooms one of the best of perennials on account of extreme hardiness, ease of growing, keeping qualities after cutting and use for bedding purposes. Plants, each 30c; per doz., \$2.60. Field grown clumps, each \$1.00 and \$2.00. We have the Mrs. Scott Elliott strain of Long Spurred varieties which has been proven the super-fine strain for long spikes.

**ASTERS**—Immense size, with very large wavy twisted petals formed into a dense half globe. Very hardy and popular. Each 30c; doz. \$2.75.

**BLEEDING HEART**—Will grow in shady or sunny locations but blooms more freely when given plenty of sun. Plants, each 75c; large 2-year clumps, each \$2.00.

**CAMPANULA** (Canterbury Bell)—One of the finest plants for border use. Excels in rich soil and half shady location. Can be furnished in rose, white, blue or mixed colors. Each 30c; per doz., \$2.75. Field clumps \$1.00 and \$2.00.

**CAMPANULA** (Pyramidalis)—Called the Chimney Bell Flower. Grows from 3 to 5 feet. Flowers blue, salver shaped. Each 30c; doz., \$2.75.

**CARNATIONS**—A great favorite for ease of growing and exquisite fragrance. Mixed colors each 30c; per doz., \$2.75. Pure red, each 75c.

**CERASTIUM** (Snow in Summer)—4 in. Silvery white foliage, covered with snow-white flowers in early summer. Each 30c; doz., \$3.00, postpaid.

**COREOPSIS, GOLDEN SUNBEAMS**—One of the most beautiful hardy perennial plants in existence. Grows 15 to 18 inches high and produces in great profusion all summer long large Marguerite-like flowers of a deep golden yellow color. Flowers produced on long wiry stems and very lasting, making them especially adapted for cutting. Each 30c; postpaid \$2.75.

**DELPHINIUM** (Perennial Larkspur)—Few plants are so handsome in the garden as the perennial Larkspur. There are many species in cultivation, but the most important are the tall hybrids, of which there are many varieties with a wonderful range of color. They are valuable for their great variety in shades of color, varying from the palest lavender through every conceivable shade of blue to deep indigo. They thrive in almost any situation or soil and are easily increased, being perfectly hardy. A good deep rich soil will repay with larger and better flowers. Remove the flowers before the seed pods form and they will flower later in season again. Each 35c; 3 for \$1.00, postpaid.

**DIANTHUS** (Pinks)—Can be furnished in white, yellow, red or mixed colors. Very hardy and free blooming. One of the favorites for borders. Each 30c; per doz., \$2.75; Large field grown clumps, \$1.00 and \$2.00.

**DIGITALIS** (Foxgloves)—Height 4 to 5 ft., fine for the garden background. A beautiful shade of flower with luxuriant foliage. Each 30c; per doz., \$2.75.

**FORGET-ME-NOT** (Myosotis)—A dainty blue flower, very hardy. Each 30c; per doz., \$2.75.

**GAILLARDIA** (Blanket Flower)—One of the most popular flowers for cutting. Very hardy and easily grown. Each 30c; per doz., \$2.75.

**GOLDEN GLOW**—Height 6 ft. A very large, double and Dahlia-like flower. Blooms from July until Sept. Each 30c; per doz. \$2.75.

**GYPHOPHILIA** (Baby's Breath)—A valuable border plant. Flowers very minute in attractive masses. Can be cut and dried. Each 30c; per doz., \$2.75. Large clumps, \$1.00 and \$2.00.

**HESPERIS MATRONALIS** (Sweet Rocket)—Evening Scented Stock)—Deliciously sweet-scented flowers for garden or cutting. 2-3 ft. June-August. Each, 30c; doz., \$3.00, postpaid.

**HIBISCUS**—Height 5 ft. Succeeds especially well in damp places. Each 30c.

**HOLLYHOCK**—Height 4 to 5 ft. Ideal for background planting. Flowers double. Each 30c; per doz. \$3.00, postpaid.

**IRIS**—No flower surpasses the Iris in delicacy of texture and color or is more showy. Thrives in almost any soil. Plant in the fall to obtain best results. Each 30c.

**LILY OF THE VALLEY**—Height 6 in. Fine for border planting. Delicate white flowers, very sweet scented. Should be planted in the shade. Each 10c; per doz., \$1.00.

**LILY, TIGER**—Very hardy, succeeds anywhere. Flowers very large, orange and black. Each 30c; per doz., \$2.75.

**ORIENTAL POPPIES**—Height 2 ft. Flower a beautiful shade of deep scarlet, often 6 inches across. Blooms the largest of any of the perennials. Each 30c; per doz. \$2.75. Large clumps \$2.00 and \$1.00.

**PHLOX**—Among the hardy perennials there are none more showy than this wonderful flower. Very hardy and easy to grow. Should not be disturbed after planting for 3 to 4 years, when they should be dug and the clumps that have formed separated. Will withstand extremes of both heat and cold.

Elizabeth Campbell—A light salmon.

Rheinlander—A rare shade of salmon pink with a distinct clarity-red eye. One of the newer varieties and a beauty.

The Bridesmaid—A beautiful shade of carmine pink.

Miss Lingard—We consider this the best white. Very early, blooms two weeks ahead of any other variety. Fine for cutting.

Chas. Seibold—A pure deep red, flowers very large. A tall and robust grower.

Mixed—Best varieties. Each 35c; 3 for \$1.00. Large 3 yr. clumps of most varieties \$2.00.

**PHYSALIS** (Franchetti) (Chinese Lantern Plant)—1½ ft. Flowers yellow with dark center. Produces balloon-like husks the second year from seed, which turn bright red when ripe and resemble Chinese lanterns. Each, 30c; doz., \$3.00, postpaid.

**PYRETHRUM**—One of the best for cutting as the flowers will last a week in good condition. Will thrive under most any condition. Furnished in pink, white, rose, yellow or mixed. Each 30c; per doz., \$2.75.

**RAGGED ROBIN**—Height 2 ft. A scarlet flower borne most profusely. Blooms commencing in June. A showy flower in any garden. Each 30c; per doz., \$2.75. Large field grown clumps, \$2.00.

**SHASTA DAISY**—No description of this wonderful perennial is needed. Foliage a dark green covered with flower stems bearing pure white flowers. Each 30c; per doz., \$2.75.

## ANNUAL FLOWERS

We can furnish the following annual flowers in potted plants ready to set out. You are assured early blooms of the most striking colors. Asters, Snap Dragons, Calendula, Dianthus or Pinks, Sultana, Lobelia, Forget-Me-Nots, Marigolds, Petunias, Salvia, Verbena, Vinca, Marguerites and Zinnias. Per doz. \$1.50; larger plants \$2.00 per dozen.

## HANGING BASKETS—WINDOW BOXES

We have experts who can make the proper arrangement in order to secure the most striking appearance. Price of stock for your window box ranges from 75c to \$2.00 per running foot. All stock for window boxes will be 3 in. potted plants with directions for planting and arrangement of same furnished.

**RESURRECTION** Plants are truly named and one of the most interesting plants there is to watch. They resemble brown bunches of cedar leaves but when placed in water they almost immediately become a dark green, bushy plant. They then may be taken out of the water and will return to their former condition. They may be "planted" and dried for years without killing them. Price, 2 plants for 35c, postpaid.

# Spring Flowering Bulbs

## CANNAS

Cannas should be planted in good, rich garden soil, mixed with half of old rotten stable manure by the end of May, when danger of frost is past. Water sparingly for first two weeks after planting. When growing freely water liberally. They are quick growers and bloom continuously until frost.



Cannas

**YELLOW KING HUMBERT**—A marvelous variety, bearing large trusses of beautiful flowers in greatest profusion from early until late. Flowers deep, rich yellow spotted with bright red.

**RED KING HUMBERT**—4 to 5 ft. Bronze foliage. This is one of the most popular varieties. Very large orchid flowers of brilliant orange red, broad rounded petals.

**THE PRESIDENT**—4 ft. In color a rich glowing scarlet and the immense rounded flowers seven inches across when fully open are produced on strong erect stalks well above the green foliage. Free bloomer and strong grower.

**PRICE OF THE ABOVE CANNAS**—Each 20c; doz., \$1.90, postpaid; not prepaid, each, 15c; doz., \$1.75.

**SPECIAL COLLECTION OF CANNAS**—Four of each of the above varieties, one dozen in all, \$1.70, postpaid your station.

**SEMESAN JR**  
*Makes Seed Corn Healthy*

## —and Invigorates BULBS

Semesan controls and prevents infection by the common diseases to which bulbs and flowers are subject. Easy to use either as a dust or liquid. Harmless to the most delicate seed yet deadly to fungous and disease parasites. Keeps your plantings disease-free, increases germination and produces better stands and finer blooms.

### PRICES, ADD POSTAGE

2 oz. ----- \$ .50    8 oz. ----- \$1.60    1 lb. ----- \$ 2.75  
 5 lbs. ----- \$13.00    25 lbs. ----- \$62.50    50 lbs. ----- \$122.50

Ask for **FREE**  
**Crop Booklets**



Untreated

Treated



## NAMED GLADIOLUS BULBS

**BYRON L. SMITH**—Delicate lavender deepest at the edges of the petals and shading towards white in the center; gives the impression of an orchid—a real gem. Each, 12c; doz. \$1.15, postpaid.

**CHICAGO SALMON**—A new introduction by the originators of Chicago White. A beautiful shade of pure salmon. A very productive variety and early bloomer. Price each 8c; Per doz. 85c.

**HERADA**—Blooms of immense size on tall straight spikes, massive in every way. The blooms are pure mauve, glistening and clear. An entirely new color, in gladioli. Unusually striking and attractive. Price, each, 8c; per dozen, 85c.

**MARY PICKFORD**—Delicate creamy white with throat of finest sulphur yellow. Stem also cream instead of green giving the whole a unique appearance. Each 15c; doz. \$1.50; postpaid.

**MRS. FRANCIS KING**—Large size brilliant vermilion scarlet. A most popular and effective variety for all occasions. Each 6c; per doz., 60c.

**PRINCE OF WALES**—Beautiful salmon-orange, flowers large and well placed; an early flowering sort. 10c each; doz. \$1.00, postpaid.

**ROSE ASH**—Ashes of roses—the color that has attracted the attention of everyone who has seen it; flowers very large and spikes tall and strong, blooms well set on the spikes. This variety has a great future. 15c each; 2 for 25c; per doz. \$1.25 postpaid.

**SCHWABEN**—The largest yellow gladiolus. Pure canary yellow shading to soft sulphur yellow, with a touch of red in the throat. A tall vigorous grower with very large open flowers. Each 8c; per dozen, 75c.

**VIRGINIA**—An exquisite flaming scarlet, large massive flowers, many open at a time, making a gorgeous display of dazzling red. Won first prize at the American Gladiolus Society's show. Each 15c; per doz., \$1.50; postpaid.

**WAR**—Deep blood-red, shaded crimson-black. A leader among the large reds. Each 10c; per doz. 90c post paid.



A Field of Gladiolus

## OUR NO. 1 GLADIOLI MIXTURE (The Best Money Can Buy)

Gladioli mixtures can be purchased at almost any price and under almost any name, and it is a difficult matter for the purchaser to decide which is best. We have prepared this mixture for those that wish the best possible in Gladioli. Nothing but the newest named varieties have been placed in this mixture. The majority of our nursery customers, who take a pride in beautiful grounds plant this mixture and the increased demand each year, shows that our judgement in preparing this mixture has been right. You will find a wide variety of the newest colors so blended that your Gladioli bed will be the envy of your neighbors.

Price per doz., \$1.50, postpaid. No order for less than ½ doz. accepted.

## GRAHAM AND ROSS SPECIAL GLADIOLI MIXTURE

**50 BULBS FOR \$1.00; POSTPAID, \$1.10**

All bulbs in this mixture are blooming size and from named variety. At this extremely low price no garden is complete without several hundred of these beautiful flowers. No order for less than fifty accepted.

## DAHLIAS

We are pleased to announce to our customers that we have made arrangements with Mrs. H. Wilkenson, one of the foremost Dahlia growers in the state to select all stock, cultivate and supervise all Dahlias sold by us. We feel that with the expert knowledge of Mrs. Wilkenson, that our customers are assured the best in Dahlias. You will note that we are listing many new varieties for the first time and that all old or common varieties have been discontinued. We also ask our customers to compare these prices with any of the foremost Eastern Dahlia growers.

Abbreviations: Decorative (D), Show (S), Cactus (C).

Prices: All prices quoted are postpaid your station and for strong, healthy roots. If you wish Dahlias started in individual boxes, add 15 per cent to quoted price.

**A. D. LIVONI (S)**—Beautiful soft lustrous pink. A Dahlia that has never been surpassed in shape and perfection. Each 50c.

**BASHFUL GIANT (D)**—One of the largest flower Dahlias yet introduced. A deep apricot shaded with gold. Each \$1.25.

**CATHERINE WILCOX (Ball)**—A pleasing contrast to the Cuban Queen, being a ball Dahlia with predominating color white with red edge on each petal. Price, each 50c.

**CUBAN QUEEN (Ball)**—An attraction in any garden. Color pure yellow with a red edge on each petal. Price, each 50c.

**DOROTHY PEACOCK (S)**—A beautiful shade of shell pink shading lighter on the petals. Each 60c.

**ELEANOR MARTIN (D)**—One of the most persistent bloomers of all Dahlias, and in addition grows on large stiff stems which is an advantage in that the wind cannot damage them. Color, rose shaded with a violet reverse on each petal. Each, \$1.00.

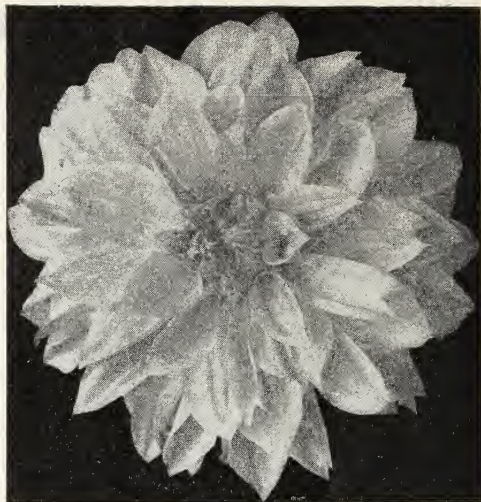
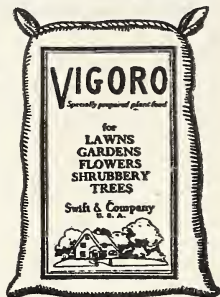
**F. W. FELLOWS**—Flowers of immense size composed of numerous long, narrow incurved petals of lively orange scarlet. Each 65c.

**FRANCES LOBDELL (Hybrid Cactus)**—This Dahlia will prove a pleasant contrast of color in any Dahlia garden. A mellow pink with a pure white center. Price, each 50c.

**GUSTAV DUZON (Giant Decorative)**—Flowers intense orange red with a crimson shading. A showy flower in any garden. Each 60c.

**JEAN KERE (D)**—One of the free bloomers. A good keeper and profuse bloomer. Color pure white. Each 60c.

**JERSEY MAMMOTH (D)**—A new shade that we feel sure will become popular with all Dahlia lovers. One of the largest flowers yet introduced, growing from



Jersey Beauty

ten to twelve inches in diameter. Color, golden Mahogany. Price, each \$1.00.

**JERSEY BEAUTY (D)**—A variety of supreme merit and one that is really perfect. No other Dahlia so far introduced can measure up to it. The color is true pink without any markings, flowers perfect in shape, produced on long, straight, stiff stems. Very free bloomer and a splendid keeper. Each \$1.00.

**JERSEY'S BEACON (D)**—The color is Chinese Scarlet with a paler reverse giving a two-toned effect. Flowers very large and globular in form. A prolific bloomer and vigorous grower. Stems stiff enough to hold flowers erect. Each \$2.50.

**JUDGE MAREAN (D)**—Large flower, free bloomer; salmon pink with orange and gold shading. Each \$1.00.

**KITTY DUNLAP (D)**—A beautiful color of rose pink. Flowers very large. Each 60c.

**MARGARET NASSON (D)**—This new introduction is one of the best keepers when cut of any Dahlia that has been introduced for the past three years. In addition, it grows to great depth giving a full blossom of bright silver rose. Price, each \$1.00.

**MILLIONAIRE (D)**—This new introduction is properly named as it makes any garden look like a million dollars. A wonderful bloomer of extra large flowers. Color, pale red. Each 50c.

**MIXED DAHLIAS**—In digging and sorting our named varieties some become mixed and we offer these at the following prices. Each 15c; per doz., \$1.50.

**MRS. I DE VER WARNER (D)**—Of immense size on long stiff stems, making it ideal for cutting. Color mauve pink. Each \$1.00.

**ODAN (C)**—A profuse bloomer and good keeper. Color pink and orange. Each 60c.

**PATRICK O'MARA (D)**—The color is an unusually soft and pleasing shade of orange-buff slightly tinged with beautiful deep rose-color. Each 50c.

**POP STEWART (D)**—One of the larger flowers in the Dahlia family. A wonderful bloomer and good keeper. Color, pure lilac pink. Each \$1.00.

**QUEEN OF THE GARDEN BEAUTIFUL (D)**—A flower that has filled the dreams of Dahlia lovers. One of the largest of all Dahlias. Measures from nine to twelve inches across, grown without forcing. A gigantic lemon colored decorative with stems that are unusually strong; the blooms are wonderful keepers. Each \$4.00.

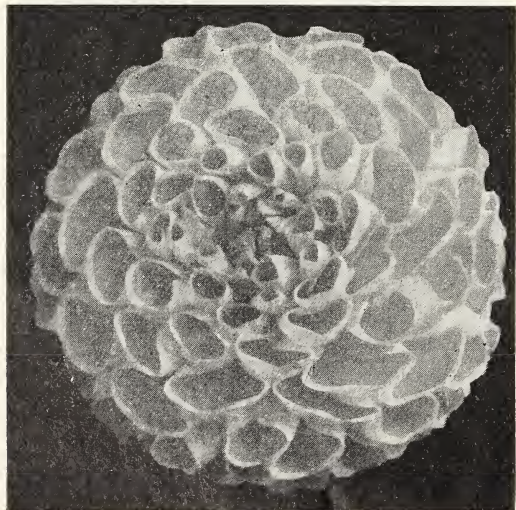
**SNOW QUEEN (C)**—A dainty white and profuse bloomer. Each 35c.

**STORM KING (S)**—Ideal for cutting. Color pure white. Each 35c.

**SISKIYOU (Hybrid Cactus)**—A late introduction and we believe one of the most popular. A color, when in blossom, that is hard to describe, being a tourmaline pink with an orange shading on the base of each petal. Price, \$1.00.

**U. S. A. (Hybrid Cactus)**—A very beautiful color of deep pure orange. A variety that has been hard to obtain and one that should be in every garden. Each \$1.25.

**WORLD'S BEST WHITE (D)**—We consider this one of the best whites yet introduced. Each \$1.25.



Pom-Pom Dahlias

# PET SUPPLY DEPARTMENT

This department was added a year ago and since that time its growth has been phenomenal. The reason for this has been due to the fact that we give each order, no matter how small, our personal attention. We carry only standard brands of merchandise and sell only articles which we have tested and which have been proven to be satisfactory.



## LIVE PETS

### CANARY BIRDS

**HARTZ MOUNTAIN ROLLERS**—Our birds are all imported direct from Germany and with each one sold we give a written guarantee that it will sing to satisfy the purchaser. If it does not it may be exchanged for one that will. Specify whether you prefer an all yellow bird, a mottled one, or an all green one. Each \$10.00.

**SAINT ANDREASBERG ROLLERS**—Saint Andreasberg birds have been trained for generations and are regarded as the finest singers obtainable. Each, \$12.00.

**OPEN MOUTH CHOPPERS**—Choppers do not roll their song but sing with shorter and louder notes. Each \$12.00.

**FEMALE BIRDS**—Rollers or Choppers, all bred from singing families of German Birds. Each bird guaranteed to mate. Each, \$4.00.

**LOVE BIRDS**—Love Birds do not sing but are wonderful pets, because of the ease with which they may be tamed. Their peculiar antics are amusing to both old and young. Per pair, \$11.00.

**BLUE SHELL LOVE BIRDS**—A rarer species of the Parakeet family. These birds are identical with the common Green Shell Love Birds except

for the color which, as the name indicated, is a beautiful shade of blue. Per pair, \$16.00.

**PARROTS**—If you are interested in obtaining parrots that are guaranteed to talk, write us for quotations.

We handle all kind of live pets, such as rabbits, guinea pigs, dogs, puppies and cats. If you are inter-

ested in obtaining anything of this nature, write for quotations.

To above prices add 50c to cover express charges to any station in Montana. We recommend that all birds be shipped by Express.

### BIRD CAGES

**NO. 2274**—Solid Brass Hendryx Cage with brass wire seed guard, self locking base hooks, non-breakable cups, and birch perches. Finished in the following color combinations: Green and Black; Red and Black; and Blue and Gold. Each \$4.95.

Above cage furnished with drawer base to facilitate cleaning, 75c additional.

**NO. 2030**—A beautifully designed Hendryx Cage equipped with non-breakable cups, wire seed guards, patented hooks and furnished in the following Duco combinations: Chinese Red and Black; Blue and Gold; Apple Green; and Polished Brass. Each \$8.65.

With Drawer base, \$9.45.

**NO. 608G**—A rectangular brass cage with drawer base and seed guard. Price, \$8.50. Without Seed Guard, \$7.35.

### BRASS DOME CAGES

**NO. 274**—10¼ in. dia., 16 in. high \$3.15

**NO. 275**—11 in. dia., 16½ in. high \$4.00

**NO. 276**—12 in. dia., 18 in. high \$4.75

All brass, with guards to prevent seed from scattering; has opal seed cups.

### STANDS

**NO. 29**—Height 5 ft. 5 in. All brass finished in the following colors: Red, two-tone; Green, two-tone; Blue, two-tone and polished brass. Price, \$4.35.

**NO. 58**—All brass with complete circle. Furnished in the following colors: Red, two-tone; Green, two-tone; Blue, two-tone and polished brass. Price, \$4.35.

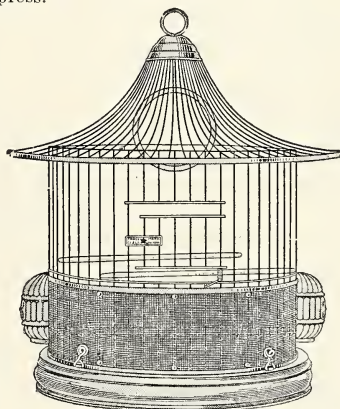
**NO. KA**—Same as above stands, same color combinations, but bases are made of wrought iron. Our special price is \$3.10.

### PARROT CAGES

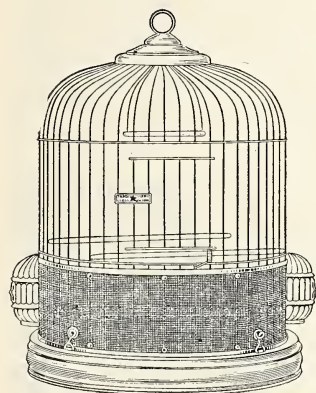
Made of standard tin wire, with zinc base.

No.	Diam.	Height	Price Each
80 P	14 in.	23 in.	\$ 8.65
85 P	15½ in.	24 in.	9.85
90 P	17½ in.	30 in.	10.85

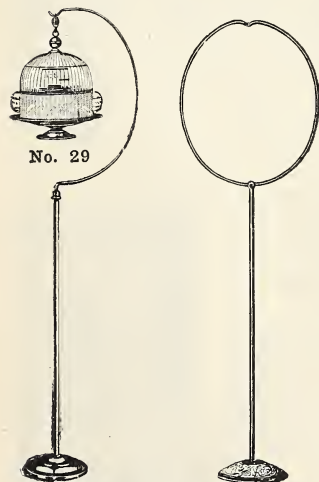
Add 35c to catalog prices of all bird cages and stands to cover parcel post and packing charges.



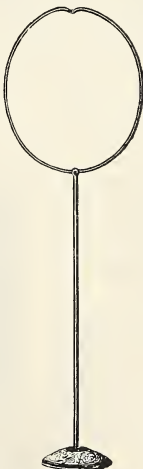
No. 2030



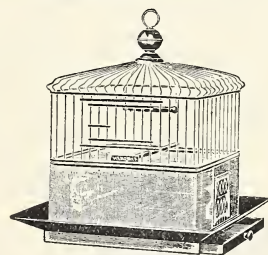
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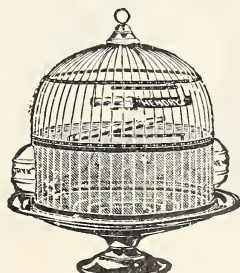
No. 29



No. 58



No. 608G



No. 274

## SEED CUPS

Postpaid Prices

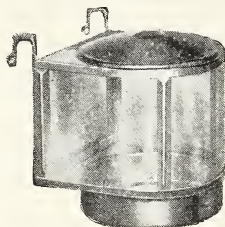
**NO. 1908**—Heavy Opal Cup, 15c each.

Non-Breakable Pyroline cup, ivory color, 25c each.

Treat cups for feeding song food, color food, etc., 10c each.

**BIRD CAGE****HOOK**—For suspending cages against the wall, heavy wire, brass made of extra

plated. When cage is not hanging on it, hook swings back against the wall. Style 0, each 10 ins. long, 20c.

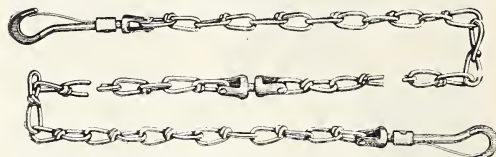
**BIRD BATHS**—To fit in cages made of unbreakable glass, moulded in one piece. Each 35c, postpaid.**DELTA BIRD BATH**—The new modern washable bird bath which hangs on the outside of door. Birds enjoy bathing in them. Fits any cage. Satin Brass, \$1.35; White Enamel, \$1.00, post paid.**CANARY PERCHES**—Give length and state whether for round or square cage. Made of seasoned birch. Each 15c, postpaid.**CAGE SWINGS**—To fit any size cage. Each 10c, postpaid.**BIRD NESTS**—Made of tin wire with swivel clamps. Each 20c, postpaid.**SINGLE CAGE SPRING**—Made of extra heavy brass. Each 15c, postpaid.**DOUBLE CAGE SPRING**—Each 25c, postpaid.**BIRD NESTING**—Made of sterilized goats hair. Per package, 15c postpaid.**BIRDOLINE**—Famous as a song food and a preventive for all diseases. Package, postpaid 35c.**SPRATT'S SONG RESTORER**—To be fed twice a week as a treat or is of special benefit to birds that have lost their song. 30c postpaid.**SILVERTONE PICKMEUP**—A well known song food. New, large package, 35c postpaid.**COLOR FOOD**—Produces a deep yellow color when fed canaries. 30c postpaid.**BIRD PEPPERS**—For use on birds suffering with colds. 15c postpaid.**BIRD MAINA**—Fasten to cage and is valuable for treating common ailments. Price, 17c postpaid.**CANARY PIE**—Much appreciated manna food. Fastens on cage. 17c postpaid.**SPRATT'S SING SONG**—A song aid and treat to be fastened on cage. 17c postpaid.**SPRATT'S LOVE BIRD MIXTURE**—Contains only those seeds which are relished by Parrakeets. 35c a pkg. postpaid.**SPRATT'S EGG AND FRUIT SEED**—For Roller Canaries. 35c postpaid.**BIRD LOUSE POWDER**—In dust-gun, 30c postpaid. In shaker top carton, 30c, postpaid.

## SPRATT'S DOG REMEDIES

Postpaid Prices



Antiseptic Dog Soap for cuts and skin diseases	\$.25
Spratt's Flea Soap	.25
Flea Powder	.35
Chronic Skin Disease Tablets	.65
Jaundice Tablets	.65
Diarrhea Tablets	.65
Distemper Tablets for puppies and small dogs	1.00
Distemper Tablets for old dogs	1.00
Worm capsules for puppies	.55
Worm capsules for old dogs	.55
Tape Worm Tablets	.65
Ear Cancer Ointment	.65
Chronic Skin Disease tablets	.65
Cooling and alternative tablets	.65
Cough tablets	.65
Mange and skin disease ointment	.65
Liquid Mange cure	.85

**PET LICKS**—Sulphurized spoons of salt for rabbits, cavies, etc. 10 spoons, 75c postpaid.**DOG BRUSHES**—For Collies, Setters, and other long haired dogs, 95c postpaid. For close haired dogs, 75c postpaid.**ALUMINUM COMBS**—For long haired dogs, \$1.10 postpaid. For short haired dogs, 85c postpaid.**COARSE BONE COMB**—35c postpaid.**DOG COLLARS**—Leather collars fitted with name plates and mounting. Sizes 11 to 17 inches. 85c postpaid. 17 to 20 inches, 95c postpaid.**DOG HARNESES**—For small dogs, 95c postpaid. For larger dogs, \$1.25 postpaid. When ordering collars or harnesses give tape-measurement around the neck and around the body just back of the front legs.**DOG SWEATERS**—Woolen worsted sweaters, sizes 10 to 20, \$1.55 each postpaid.**DOG CHAINS**—Heavy chains with hook and swivel. 4 ft., 45c; 6 ft., 55c.

## DOG FOODS AND SUPPLIES

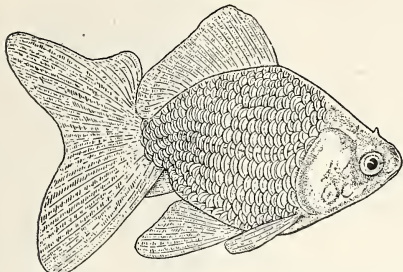
**SPRATT'S DOG FOODS**—The oldest and best known of all prepared foods for dogs.**SPRATT'S FIBO**—A granulated food, containing a large percentage of Spratt's Meat Fibrine. It is very appetizing and highly recommended for shy and dainty feeders, as a change of diet or as a suitable food for any dog at any time. It can be given either dry or soaked.**SPRATT'S OVALS**—The pocket dog biscuit. A small Meat-Fibrine dog biscuit of superior quality. Appreciated by small, medium and large breeds. A few of these diminutive dog cakes can be carried in the pocket when on a ramble with the dog.**SPRATT'S DOG CAKES**—Used by the leading breeders throughout the world. The best results are obtained by giving the biscuit dried, not soaked, thereby compelling the dog to gnaw and thus producing a copious flow of saliva which materially aids digestion.

Prices on above foods: 2 lbs., 45c; 6 lbs., \$1.15, post paid.

**SPRATT'S PUPPY CAKES**

—A complete and perfect food for puppies from weaning time onwards and for small breeds as the regular food instead of Spratt's large Dog Cakes. 2 lbs., 60c, postpaid.

**SPRATT'S PUPPLIAC**—An ideal milk substitute for orphan puppies. 10 oz. can, 75c postpaid.**VITAMONT DOG FOOD**—A canned food composed of meat, vegetables and cereals. Good for all dogs, of all ages. 2 cans 38c; 6 cans, \$1.12; 12 cans, \$1.92; case of 48 cans, freight paid, \$6.95.

**GOLDFISH**

Our goldfish are selected stock of extra hardy mountain raised fish. Shipment may be made by express, with practically 100% safe delivery.

**COMMON GOLDFISH**—Small size, 15c. Medium size 25c.

**SHUBUNKINS**—A fish characterized by high color markings on the sides. Its colors are blue, purple, black, red, grey and white. Medium size 50c.

**AMERICAN FANTAIL**—Medium size 60c.

**COMETS**—An extra long fast-swimming fish characterized by unusually large tail and fins. Medium size 50c.

**JAPANESE NYMPHS**—A short plump body fish developed by the Japanese. Medium size 50c.

**POND SNAILS**—Very useful as scavengers because of their habit of eating fish refuse. 10c each.

All fish are shipped in aerated cans. Add 60c to above prices to cover cost of cans and express.

**AQUARIUM SUPPLIES****HAND TURNED FISH BOWLS**

Globe shaped,  $\frac{1}{4}$  gal., 40c postpaid.  
1 gal., 90c postpaid.  
Drum shaped bowl, 1 gal., 90c postpaid; 2 gal., \$1.60 postpaid.  
Squat bowls, 1 gal., 90c postpaid; 2 gal., \$1.60 postpaid.

**GOLDFISH CASTLES**

Size No. 1, average 3 inches high, 20c each postpaid  
Size No. 2, average 4 inches high, 40c each postpaid  
Size No. 3, average 6 inches high, 85c each postpaid



434



602

466 $\frac{1}{2}$ 

596

**WROUGHT IRON FLOOR STAND**—For 2 gal. bowl finished in Duco Red and Gold, Green and Gold and Black and Gold. \$2.85 postpaid.

**SHELLS and CHIPS**  
—Dyed with bright non-fading colors. Chips 20c per lb. Shells, 35c per lb.

**WATER PLANTS**—Very useful for use in goldfish bowls and aquariums as they supply oxygen and food for the fish. Assortment of three different kinds of plants, postpaid 15c.

**FEEDING TRIANGLES**

For feeding wafer food to prevent scattering over the entire bowl. Each 15c postpaid.



**GRASSYFORK WAFERS**—An ideal wafer food containing not only rice and wheat, which common wafers do, but mineral salts and other natural food which is essential for fish health. 15c postpaid.

**SPRATT'S AQUARIUM FOOD**—A granulated food which sinks to the bottom of the bowl. 15c postpaid.

**FISH TONIC**—A tonic and stimulator which should be used at least twice a month. Pkg., 30c postpaid.

**FISH ASSORTMENTS**

**ASSORTMENT A**—A one-gallon drum bowl, complete with fish, ornaments, food and water plants and scavengers, packed and shipped to you for \$1.95.

**ASSORTMENT B**—Two gallon drum squat bowls complete with ornaments, fish, snails, food and instruction book. Packed and shipped, prepaid, \$2.65.

**RUSTIC BIRD HOUSES**

Of all the additions that may be made to the garden, there are none that are more pleasant, entertaining or useful than the wild birds. The erecting of bird houses is the most practical way of attracting them. The houses listed below are all made of cypress, and hemlock and are finished in natural color. Each house is built to accommodate only one specie of bird and are made as natural as possible.



No. 10 Wren House



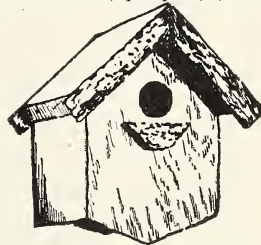
No. 6 Wren House

**WREN HOUSE NO. 10**—This little house is strong and weatherproof and may be cleaned by removing the strip of wood at the bottom. Price postpaid, \$2.35.

**WREN HOUSE NO. 6**—Here is a house of simple, yet pleasing design, made of southern cypress, stained a soft brown; bottom is removable. Price, postpaid, \$2.95.

**TREE SWALLOW**

**HOUSE NO. 7**—The house is also suitable for Bluebirds and is especially designed to be mounted up on top of a pole. Made of cypress with a rustic hemlock trim. The bottom is removable. Price postpaid, \$3.35.



No. 7 Tree Swallow House

**BLUE BIRD HOUSE**

**NO. 4**—This is a very sturdy and practical house for Bluebirds, intended to be fastened to the trunk of a tree. The sides are of hemlock and the roof, back and bottom are cypress. Postpaid price, \$3.65.



No. 2 Wren House



**NO. 4 BLUE BIRD HOUSE**  
**WREN HOUSE NO. 2**—Here is a rustic wren house designed to be fastened to the trunk of a tree. Three sides are of hemlock and the roof, back and bottom are of cypress. An ornamental twig is fastened to the trunk. Price postpaid, \$3.95.

**NETS**—It is extremely important that the hands are never put in the goldfish water. For this purpose we have a woven net. Each 30c, postpaid.



### BIRD FOODS AND REMEDIES

**X-L BRAND BIRD SEED** is a balanced mixture of reclaimed Sicily Canary, English Rape, Millet Seeds, Bird Lettuce and Flax Seed and has proven to be the best combination for preserving the health and perfecting the song of Canaries and all cage birds. Each box contains a separate bag of Hemp seed and a large piece of Cuttle Bone. 1½ lb. pkg., 35c postpaid.

**RAPE SEED**—Selected English Rape, resifted for cage birds. Lb., postpaid 25c.

**PURE CANARY SEED**—Bright, plump seeds imported from Sicily. Per lb., postpaid, 30c.

**MILLET SEED**—These small seeds are relished by all birds and are especially good for Love birds. Lb., 20c postpaid.

**LETTUCE SEED**—Certain varieties of lettuce are very good to keep a bird in good condition and act as a tonic. Per lb., 25c postpaid.

**HEMP SEED**—Large seeds, 25c ppd.

**SUNFLOWER SEED**—Two-thirds of the sunflower seed sold for Parrots is worm eaten. We are particular in selecting our seed, using only the large, plump, mammoth Russian variety. Lb., 25c ppd.

**X-L BRAND PARROT SEED**—Properly mixed seeds keep them in good health and plumage. 2 lb. box, postpaid, 60c.



## Nursery Department

After several years of careful preparation and hard work, we can now offer our many customers a complete line of nursery stock. We have located our Nursery at Great Falls where hundreds of different varieties have been planted and tried so that nothing but the hardiest of each species would be sold our customers in this GREAT NORTHWEST.

### FOREWORD

**Our Guarantee:** We guarantee to every customer, stock that is true to name, and absolutely as represented. Any stock proven not to be true to name will be replaced free of charge.

**How We Ship:** We exercise our judgment and ship as we deem best. In all cases we guarantee our stock to be delivered in good condition. We pay the transportation charges in all cases.

**Replacements:** If stock was paid for on date of delivery and given proper care and planting, that which fails to grow will be replaced for a period of one year on the following schedule, which is made to help cover the cost of wrapping, bailing and express charges: all trees, 50c; all shrubs, 35c each; all other stock 10% of original cost.

**Quality and Price:** We have not built our business on LOW PRICES but quality at all times. We do not have the lowest prices but we know that we have the highest quality that can be found, and our customers are always assured of obtaining strong, healthy, true-to-name stock that is acclimated to our great North-West.

**Date of Shipment:** We prefer to have our customers allow us the privilege of shipping when we deem best. One day before stock is dug and packed at our nursery in Great Falls, we will mail a card to each customer who has placed an order notifying that goods has been shipped. **COMPLETE PLANTING DIRECTIONS**, also caring for nursery stock will be mailed with each order.

**IF YOU CANNOT PLANT STOCK** within **THREE** days after goods arrive, heel-in all stock using plenty of water.

**TERMS:** On all orders for Nursery stock we

require a deposit of 50% of entire order and no Nursery stock will be shipped C. O. D. for entire amount.

### ORNAMENTAL SHADE TREES

**GREEN ASH**—One of the best for the Northwest on account of its extreme hardiness. A wonderful shade tree. Each 8-10 ft., \$2.75.

**AMERICAN ELM**—Popular in all sections, a wonderful shade tree succeeding well where soil is somewhat heavy and damp. Each, 8-10 ft., \$3.00; 6-8 ft., \$2.00; 5-6 ft., \$1.25.

**MOUNTAIN ASH**—A handsome and hardy tree covered from July until mid-winter with bunches of bright scarlet berries. Each 6-8 ft., \$3.25.



**BAY OR LAUREL LEAVED WILLOW**—One of the best of the species for foliage, which is of a bright, shining green and is retained until very late in the fall. 8-10 ft., \$2.50; 6-8 ft., \$2.00; 5-6 ft., \$1.50.

**BOX ELDER** (Negundo)—Large, spreading tree of rapid growth; very hardy, and a good drought resister. Largely planted for wind breaks and timber. Leaves resemble those of the ash. 6-8 ft., \$2.00; 5-6 ft., \$1.25.

**SOFT MAPLE**—A fast grower, hardy and easily transplanted. Most useful where immediate shade is required. Each 8-10 ft., \$2.50; 6-8 ft., \$2.00.

**WHITE OR SILVER LEAVED POPLAR**—Rapid grower, foliage bright green above and silvery white beneath. 8-10 ft., \$4.00; 6-8 ft., \$3.00; 5-6 ft., \$1.50. Sometimes called Silver Leaved Poplar.

**CANADIAN POPLAR**—The most popular tree planted in the Northwest. A rapid and hardy grower. Each, 8-10 ft., \$2.50; 6-8 ft., \$2.00; 5-6 ft., \$1.25.

**NORTHWEST POPLAR**—We recommend this tree in preference to the Canadian Poplar, being free of disease and longer lived. Contains all the good qualities of the Cottonwood without any of the bad ones. The young trees as they come from the nursery are not as straight as the Canadian Poplar but will straighten out. Each, 6-8 ft., \$2.50.

**BLACK WALNUT**—A rapid grower, valuable for timber and also nuts. Beautiful foliage. Each, 8-10 ft., \$4.25; 6-8 ft., \$3.25; 5-6 ft., \$2.50.

## WEeping TREES

**GOLDEN WILLOW**—Probably the best of all the large family of willows. A very hardy and rapid grower with bright yellow bark. 8-10 ft., \$2.50; 6-8 ft., \$2.00; 5-6 ft., \$1.50.

**WEeping WILLOW**—There is no tree more admired, grown, or of more rapid growth. Each 6-8 ft., \$3.25.

**WEeping CUT LEAF BIRCH**—Birches not only form an interesting class of trees, but they are also beautiful and ornamental. They are especially desirable for park and other ornamental planting. The bark usually separates into thin, papery leaves. The foliage is rarely attacked by insects. Their graceful habit, slender and often pendulous branches, and their picturesque white trunks make them conspicuous marks on any landscape. Price, 7-8 ft., \$5.00.

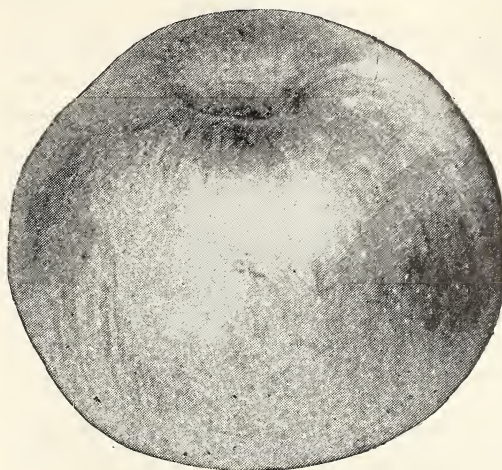
## BEAUTIFUL EVERGREENS

**BLACK HILLS SPRUCE**—A hardy and elegant evergreen tree, will bear shearing or cutting well. Each, 18-24 in., \$7.00; 2-3 ft., \$12.00; 3-4 ft., \$15.00.

**COLORADO BLUE SPRUCE**—Foliage a rich blue. A free grower and perfectly hardy. The most striking of the spruce family. Each 12-18 in., \$10.00; 18-24 in., \$15.00.

**PYRAMIDAL ARBORVITAE**—A most valuable upright evergreen of dense compact foliage, compact habit, rapid grower and hardy. Each, 12-18 in., \$8.00; 18-24 in., \$10.00; 24-30 in., \$12.00.

**AMERICAN ARBORVITAE**—One of the easiest of evergreens to transplant, very desirable as single specimens. Each 12-18 in., \$2.50; 18-24 in., \$3.50; 2-3 ft., \$4.00; 3-4 ft., \$5.00.



Wealthy

## Apples, the King of Fruit

(MOST PROFITABLE FRUIT GROWN)

### SUMMER APPLES

**DUCHESS OF OLDENBURG**—The most profitable mid-summer apple. Downing has the following to say of the Duchess: "This handsome Russian apple proves one of the most hardy and profitable varieties in cultivation especially in our northwestern sections." The tree is vigorous, forming a roundish, upright spreading head, requiring little or no pruning, and producing abundantly a fruit of fair, even and regular size, always commanding a ready sale. The fruit is very attractive, skin smooth, finely washed and streaked with red on a golden or yellow ground. Owing to the habit of growth these trees may be planted somewhat closer than many other varieties, comes into bearing unusually young, about the third or fourth year.

**YELLOW TRANSPARENT**—The earliest summer apple. The greatest home or market apple, the money-maker of summer apples, known to net over \$750.00 per acre annually. By many this is considered the best of all extra-early apples and comes into market when the demand for summer apples is extra strong; consequently it always brings the best prices. The Yellow Transparent is a hardy, beautiful, clear yellow Russian apple. It is medium-sized, uniform shape, round tapering slightly at the blossom end. The flesh is white, fine grained, sub-acid and pleasant. A good quality for eating and the very best for cooking. The skin smooth, waxy, creamy yellow with a clearness from which it gets the name "Transparent."

### FALL APPLES

**WEALTHY**—The best money maker of its season. This is by far the most valuable of all the Fall apples. Tree has proven hardy, vigorous and healthy. The fruit is a brilliant red, distinctly marked with narrow stripes and splashes of deeper red. The quality of the fruit is superb. Those who prefer an apple that is tart and juicy regard the Wealthy as the finest apple that is grown. The flesh is white, tender, crisp, fine-grained, aromatic and bears very well. Tree a free grower, very hardy with stout branches. Bears fourth to fifth year. It is adapted to many soils and climates but has been planted most extensively in the upper Mississippi Valley where its hardiness is of the greatest importance. It is a good shipper and holds up well in storage for an early fall apple. Can often be held for the holiday trade. The Wealthy is likely the best late fall or early winter apple that can be used as a filler to occupy the extra space while the permanent trees are coming into bearing. Plant Wealthy for profit as well as for home use. October to January.

**OKABENA**—Excellent keeper, very hardy and good quality.

### WINTER APPLES

**HIBERNAL**—Another northern variety of superior excellence. Very good keeper.

**McINTOSH RED**—A good bearer of handsome fruit of medium size nearly covered with red.

**DELIVERED PRICES**—5-6 ft., each \$1.50, doz., \$15.00. Write for prices on larger quantities.



A Planting of Evergreens

### CRAB APPLES

**TRANSCENDENT CRAB**—Very heavy bearer of juicy fruit. Strong grower bearing second year.

**FLORENCE CRAB**—Early, large, beautiful, fine quality. One of the best.

**YELLOW SIBERIAN**—Fruit large, golden, valuable for preserving.

**WHITNEY'S CRAB**—The first place among crabs, flesh firm, juicy and pleasant. Aug. to Sept.

**PRICES**—Prices on all of the above varieties of apple and crab apple trees are as follows: 4-5 ft., \$1.25; 5-6 ft., \$1.50. Write for prices in larger lots.

### PLUM TREES

**OPATA**—Trees vigorous, fruit dark purplish red, flesh green, quality delicious, pit small season early. Fruits second year after transplanting.

**SAPA**—Fruit dark blue glossy skin, deep wine red flesh. Trees frequently fruit when one year old.

**LORING PRIZE PLUM**—Tree hardy and vigorous, early, fruit very large and well colored, flesh firm and excellent.

**WANETA**—Bears young, fruit is not only large and attractive but has a delicious flavor. Pit small.

**PLUM PRICES**—each, 4-5 ft., \$1.75, per doz., \$20.00, 5-6 ft., \$2.00; per doz., \$22.50.

### CHERRY TREES

**COMPASS CHERRY**—Valuable and desirable for the Northwest. Hardy and prolific. 4-5 ft., \$1.50.

**BING**—Very large, black, juicy rich delicious flavor; very popular.

**EARLY RICHMOND**—Exceedingly productive and regular in bearing. Fruit dark red, medium to large.

**LARGE MONTMORENCY**—One of the finest flavored cherries in its class. Fruit large, dark red.

**CHERRY PRICES**—4-5 ft., each \$2.00; per doz., \$22.50; 5-6 ft., each \$2.50, doz., \$25.00.

### GRAPES

**BETA**—A cross of the wild grape having same hardness and general qualities with fruit much larger and of better quality. Each 2 year old \$1.00; per dozen \$10.00.

**CONCORD**—Needs no introduction. It has always been a favorite and always will be. Each 2 year old 75c; per dozen, \$8.00.

### PEARS

**KEIFFER**—On account of the excellent keeping qualities it is one of the best and most profitable market varieties. Fine for canning or preserving. For commercial orchard it is undoubtedly one of the best. The trees are not troubled with scale and seldom fail to bear a good crop. Trees bear young. Oct. and Nov.

**BARTLETT**—One of the most popular sorts, both for home and market. It is large, handsome waxen yellow, with red blush; flesh buttery, rich and juicy, highly flavored. One of the best varieties for canning. Ripens in August and September.

**PEAR PRICES**—4-5 ft., each \$2.50; 5-6 ft., each \$3.00.

No Guarantee on Pears and Grapes if Sold North of Billings, Montana.



Waneta Plum

## BERRY PLANTS AND BUSHES

### MASTODON STRAWBERRIES

#### A WONDERFUL NEW EVERBEARING STRAWBERRY

(The following article appeared in the Farm and Garden section of the Chicago Tribune, Sept. 23, '26.)

Mastodon, the great strawberry found in Indiana a few years ago, has stood the test in practically every section of the United States this season. It is now widely distributed and favorable reports come from experiment stations in various states where the berry has been tried.

In some places it is said this giant of the berry family produces three or four times as much fruit in a season as any four other varieties combined.

In a patch on B. W. and B. H. Keith's farm near Sawyer, Mich., a few weeks ago I counted from 30 to 89 strawberries to the plant. The Keith brothers, who have done perhaps more than anyone else to develop this new berry, say it is not uncommon to find a plant with 100 berries on it. One fruiting stem in the Keith patch had 24 berries in various stages from blossoms to ripe berries. Many plants this summer have produced from a pint to a quart of berries. It only takes a few of them to fill a quart cup or box, and they are highly flavored down to the center of the berry.

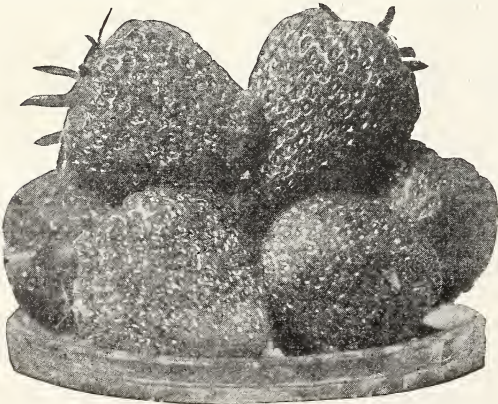
Mastodon is an everbearer, resulting from a cross between the Superba and a late ripening variety.

Berries of the Mastodon family, measuring 5 inches in circumference, were produced this year in the Keith patch. Nine of them covered the top of a quart size berry box and eighteen of them filled the box from side to side and bottom to brim. Three of the berries weighed two ounces and five placed end to end measured eight inches.

It is this large size and the great productiveness that make the Mastodon stand out away ahead of other everbearers, growers say. Mastodon is a showy berry on the market stand, being red in color, and stands in the front row so far as flavor is concerned.

The Keith farm, near Sawyer, Mich., started with 3,000 plants and today the patch covers about six acres on moist, sandy loam soil. Up to October 20, more than 600 16-quart cases or 10,000 quarts of strawberries had been picked from the patch this season. Growers claim it is the most productive and profitable everbearing strawberry.

From plants set last April, ripe berries were picked on July 11, within 90 days after the plants were put in the ground. From the spring set plants berries were picked every three to five days, yielding by the first of August about 160 quarts per acre every five days, and at that time they sold at 30 cents a quart. Despite dry weather in early fall, 36 cases an acre were picked at one picking during the first week in September. These late picked berries sold at \$6 a 16-quart case, netting \$5.30 a case to the grower. Cold, cloudy weather brought the pickings down to 5 cases to the acre during the first week in October.



Mastodon



St. Regis Everbearing

The Mastodon bears like the regular spring varieties and then comes out with another crop in the summer and fall. Light frosts do not hurt Mastodons. One year old plants springing up in the patch can be used to start a new bed. About 10,000 plants will be needed to each acre.

**PRICES**—25 for \$2.00; 50 for \$3.50; 100 for \$6.00; 500 for \$20.00; 1000 for \$37.50.

**PROGRESSIVE EVERBEARING**—A strong upright grower and great drought resister. Fruits abundantly about 3 months after plants are set and continues until after frost.

**SENATOR DUNLAP**—Hardy, productive and a splendid keeper. Very easily picked.

**PRICES**—Progressive and Senator Dunlap, well selected plants, \$3.50, tied in bundles of 25. No order for less than 25.

### DEWBERRY

**LUCRETIA DEWBERRY**—The fruit ripens soon after the strawberry. The vines remain in fruiting a long time. Melting, rich, and delicious in flavor. Per dozen \$2.50.

### BLACKBERRY

**RATHEBURN**—The largest and most productive and best flavored blackberry ever produced. Per dozen \$2.50.

### RASPBERRY

**LATHAM**—Heads all raspberries on account of its extreme hardness. Strong grower and bears heavy crops of large berries of good quality. Per dozen \$2.50.



Spirea in Bloom

**ST. REGIS EVERBEARING**—Plants planted early in April give ripe berries the last of June or first of July. The berries are large, beautiful, firm and full flavored until the last. The only raspberry known that will yield a crop the first season. Per doz., \$2.50.

### CURRENTS

**PERFECTION**—Color bright red, size large, very productive, quality the best, clusters long. Each 50c; six for \$2.75; per doz., \$4.50.

**WHITE GRAPE CURENT**—A productive and excellent sort with a mild, pleasant flavor. Each 50c; per dozen \$4.50.

### GOOSEBERRY

**CHAMPION**—Quality very good, medium to large, a remarkable bearer, not known to mildew.

**CARRIE**—Strong upright, hardy, healthy, easily picked, good size, flesh tender and juicy. Bears fruit the next year after transplanting.

**PRICES OF GOOSEBERRIES**—Each 50c; six for \$3.00; per dozen \$5.00.

### FINE HEDGE PLANTS

**BUCKTHORN**—A most popular and effective hedge plant. Fine robust grower with dark green foliage, white flowers and small black fruit in fall. Per 100: 12-18 in., \$12.50; 18-24 in., \$18.00; 2-3 ft., \$25.00; 3-4 ft., \$35.00.

**RUSSIAN OLIVE**—A very fast grower. Makes a splendid protective hedge as no one will attempt to go through it. Succeeds in dry locations. Per 100: 12-18 in., \$13.50; 18-24 in., \$16.50.

**CARAGANA**—Also known as Siberian Pea Tree. An extremely hardy variety with beautiful foliage and bright yellow pea-shaped flowers. Per 100: 12-18 in., \$12.50; 18-24 in., \$15.00; 2-3 ft., \$20.00; 3-4 ft., \$25.00.

**AMOE RIVER PRIVET**—One of the best hardy hedges attains a growth of 8 to 12 ft., if left uncut. Almost evergreen the year around. Per 100: 12-18 in., \$30.00; 18-24 in., \$40.00; 2-3 ft., \$45.00.



Japanese Barberry

### WINDBREAK STOCK

**CANADIAN POPLARS**—3-4 ft., \$10.00 per 100.

**GOLDEN WILLOWS**—18-24 in., \$9.00; 2-3 ft., \$10.00; per 100; 3-4 ft., \$12.00 per 100.

**LAUREL LEAVED WILLOWS**—18-24 in., \$9.00 per 100; 2-3 ft., \$10.00 per 100; 3-4 ft., \$12.00 per 100.

**BROAD LEAF COTTONWOODS**—2-3 ft., \$6.00 per 100.

Order for 25 or more accepted.

### HARDY ORNAMENTAL SHRUBS

**ALMOND**—Dwarf Flowering. Flowers before the leaves appear. During blooming season it is covered with bright pink double flowers. Each: 2-3 ft., \$2.50; 3-4 ft., \$3.25.

**BARBERRY, JAPANESE**—Low and spreading growth forming a dense bush. Takes a splendid autumn coloring of gold and scarlet. Each 2-3 ft., \$1.25.

**BUTTERFLY BUSH** or **SUMMER LILAC**—Blooms continuously from July until severe frost. 4 to 8 ft. high with lilac colored, fragrant flowers. Blooms freely the first season. Each 2-3 ft., \$1.50.

**CRANBERRY** (High Bush)—Both ornamental and useful. Very hardy. Each 2-3 ft., \$1.00; 3-4 ft., \$1.50.

**CRAB, BETCHEL'S DOUBLE FLOWERING**—Blooms when quite young. Beautiful double fragrant flowers of a delicate pink color. Grows to a medium size tree. Each: 2-3 ft., \$2.50; 3-4 ft., \$3.25.

**DOGWOOD, SIBERIAN**—A strong grower with bright red branches. Useful for shrubbery or winter effects. Each, 3-4 ft., \$1.25.

**ELDER, COMMON AMERICAN**—A large and spreading bush with handsome foliage, very hardy and of rapid growth. One of the best cut-leaved shrubs in cultivation. Each, 3-4 ft., \$1.25.

**ELDER, GOLDEN**—Does not grow as tall as the common elder, with some of the leaves yellow. A wonderful bush for contrast. Each: 2-3 ft., \$1.00; 3-4 ft., \$1.50.

**HONEYSUCKLE, TARTARIAN**—This is the best known variety. Forms a vigorous shrub from 8 to 12 ft., with pink flowers in May and June. Each 3-4 ft., \$1.50.

**HYDRANGEA**—The showiest of all autumn flowering shrubs, bearing immense heads of creamy white flowers which with the approach of cold weather turn to rich shades of pink or coppery red. Each 2-3 ft., \$1.50.

**LILAC, COMMON PURPLE**—The oldest and best known variety. One of the most popular shrubs. Each: 2-3 ft., \$1.00; 3-4 ft., \$1.25.

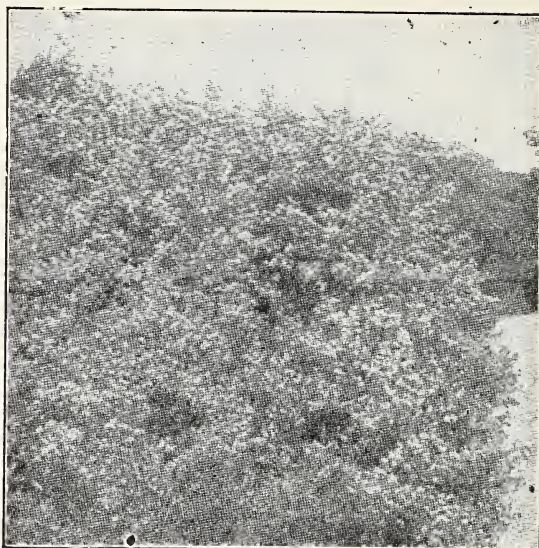
**LILAC, PRESIDENT GREVY**—A very fine double variety with large panicles of blue flowers. Each 3-4 ft., \$1.50.

**LILAC, PERSIAN**—Bright purple flowers are borne in loose panicles. A very graceful form. Each, 2-3 ft., \$1.50.

**SPIREA VAN HOUTTE**—Sometimes called bridal wreath. Covered with white flowers in the spring, a solid mass of bloom. Of graceful and drooping habit. Popular with everyone. Each: 2-3 ft., \$1.00; 3-4 ft., \$1.25.

**SPIREA ANTHONY WATERER**—A new and beautiful crimson flowered variety making a low, compact bush. Fine for bedding purposes or as a pot plant for the house. Very hardy. Each 18-24 in., \$1.50.

**SPIREA ARGUTA**—This is one of the best very early flowering Spireas, being dwarf bushy habit. Each: 2-3 ft., \$1.00; 3-4 ft., \$1.50.



Honeysuckle, Tartarian

**SNOW OR GUELDER ROSE**—The old fashioned snow ball and always popular. Each: 2-3 ft., \$1.00; 3-4 ft., \$1.50.

**STAGHORN SUMACH**—A rapid grower with large fern like leaves which gives the bush a tropical appearance. Should be cut back severely in the spring. Each 2-3 ft., \$1.00; 3-4 ft., \$1.50.

**SYRINGA or MOCK ORANGE**—A graceful upright bush with long branches covered with showy pure white flowers of delightful fragrance. Each 3-4 ft., \$1.25.

## VINES

**BIGONIA or TRUMPET FLOWER**—A splendid hardy climbing plant with clusters of large dark red trumpet-shaped flowers. 3 year roots, each \$1.50.

**WISTARIA CHINESE PURPLE**—Grows 15 to 20 feet in a season. One of the most elegant and rapid growing of all climbing plants. 3-year field grown, each \$2.00; per dozen \$20.00.

**CLEMATIS JACKMANI**—The most beautiful flowering climber for the North. Blossom 4 inches in diameter and a deep purple. Strong plants, each \$2.00.

**DUTCHMAN'S PIPE**—A climber of rapid growth with bright green foliage. Each \$2.00.

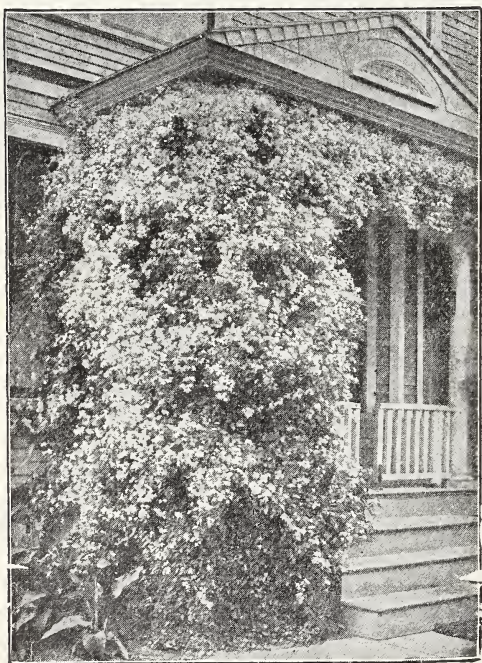
**VIRGINIA CREEPER**—Very hardy and rapid grower. Probably the best vine where shade is required. Strong 3-year old plants \$1.50; 2-year plants \$1.00.

**ENGELMANN'S IVY**—The hardiest and best climber for the Northwest. Resembles the Virginia Creeper but with denser foliage. 2-year old plants \$1.00, per dozen \$10.00; 3-year plants \$1.25, per dozen \$12.00.

**HONEYSUCKLES, HALL'S JAPAN**—One of the sweetest and most beautiful Honeysuckles. A strong, clean, neat grower, perfectly hardy, almost ever-green, passing to white, deliciously sweet; elegant for porches constant and most profuse bloomer; flowers buff-yellow, and similar places. 3 yr. field grown, each \$1.50; per dozen \$13.50.

**MADERIA VINE**—Sometimes called the Mignonette Vine. This rooted climber of dense branching growth has thick, heart-shaped glossy green leaves and delightfully fragrant, small feathery white blossoms. It is of rapid growth, and is fine for porches or out-door hanging boxes. Perennial, but take up roots in fall as the plant will not endure frost. One year old plants 10c each; \$1.00 per dozen, postpaid.

**CINNAMON VINE**—This climber is appropriately called Cinnamon Vine. Very hardy, the stem dying down every autumn, but growing again so rapidly as to cover any trellis or arbor early in the season. With its beautiful heart-shaped leaves and clusters of delicate white flowers, and most delicious cinnamon odor, is a most desirable climber. One year old, each 10c; \$1.00 per dozen, postpaid.



Clematis Jackmani

## Beautiful Roses

ALL ROSES LISTED BELOW ARE STRONG TWO-YEAR-OLD FIELD GROWN. These roses have all been in the open ground and are what is known as nursery grown.

**Directions:** Complete directions as to location of beds, soil, preparation of beds, planting, when to water and amount of water, mulching and protection and pruning are furnished with each order.

Each \$1.75; three for \$5.00; six for \$9.00; per doz. \$15.00. ALL POSTPAID OR DELIVERED FREE.

### MODERN ROSES OF PROVED MERIT

**MRS. AARON WARD**—One of the most delightful roses of recent years in a color that catches the eye at once. A deep golden orange color shading out to lemon or creamy-yellow at the edge of the petals.

### CHOICE EVERBLOOMING ROSES

**AMERICAN BEAUTY**—One of the largest, sweetest and best of all hardy roses. It is a quick grower, constant bloomer, making magnificent buds and large bold flowers; color rich, rosy crimson, shaded and veined in the most charming manner.

**GENERAL MACARTHUR**—A grand crimson scarlet Hybrid Tea Rose. It is very free blooming, every shoot producing a beautiful and richly colored bud and flower, which does not fade in the hottest sun. Flowers large and double and very fragrant.

**LADY HILLINGDON**—Awarded Gold Medal. Pointed but of deep apricot yellow, improving in color as flower matures.

**LOS ANGELES**—One of the finest roses ever introduced. Flower flame-pink toned with coral.

**MME. C. TESTOUT**—Noted for its bright rose color. Fine forcing plant with healthy foliage.

**OPHELIA**—A grand new Hybrid Tea Rose. This fine novelty is remarkable for its strong, upright growth, handsome leathery foliage and the exquisite coloring of its beautiful formed buds and flowers. The color is a delicate salmon, petals prettily edged with rose while the center of the flower is a rich mingling of orange and copper shades.

**PRAIRIE KING**—The new ever-blooming rose that has created such a favorable impression with all rose lovers in the Northwest in the past three years on account of its extreme hardiness and beautiful color. For intense and dazzling color there is no rose to compare with this splendid kind. The flowers are large and handsome, moderately double, of splendid substance, and produces an amazing profusion of flowers from early summer until freezing weather in the Fall. Always in bloom. The color is fiery crimson, shaded with a dark velvet sheen. A combination found in no other rose. The easiest rose to grow.

**SOLEIL 'D OR** (Golden Sun)—Flowers very double, most beautiful when full bloom, a superb color, varying from gold and orange yellow to reddish gold and shaded nasturtium red.



Lady Hillingdon

### CLIMBING ROSES

**BABY RAMBLER**—A mass of bloom from May until frost. Hardy and vigorous. Foliage never attacked by insects or fungus.

**CLIMBING AMERICAN BEAUTY**—Rosy crimson, with same fragrance as the American Beauty. Unequaled as a pillar rose.

**CRIMSON RAMBLER**—Vigorous, throwing out shoots 8-10 ft. in a season. Very hardy.

**DOROTHY PERKINS**—A new climbing rose. Blossoms borne in clusters of 30 or 40 and sometimes more. Flowers very double and large for a climbing rose.

**QUEEN OF THE PRAIRIE**—Light rose color, large, compact. A profuse bloomer.

**ROSE PRICES**—Strong 2 year plants, each \$1.50; six for \$9.00; per dozen \$15.00.

### HYBRID PERPETUAL ROSES

**HYBRID PERPETUAL ROSES** are among the grandest of roses and hardy in all parts of the country. The flowers are very large, of delightful fragrance and the colors are generally darker and richer than the ever-blooming roses. These roses are strong growing and need no special cultivation to secure the finest blooms. In fact they will take care of themselves better than any other class of roses.

**FRAU KARL DRUSCHKEI**—This giant white rose is without doubt the most popular variety of the day. For years we have been waiting for a hardy, strong-growing pure white garden rose when this superb variety appeared. Buds of immense size, egg shaped, with heavy waxy petals opening into a mammoth snowy white bloom of great refinement. Hardy as an oak tree. Can be planted anywhere.

**GENERAL JACQUEMINOT**—Bright shining crimson, very rich and velvety. Makes magnificent buds and beautiful flowers. An old favorite.

**HARRISON'S YELLOW**—Bright golden-yellow, free bloomer and by far the hardest yellow rose.

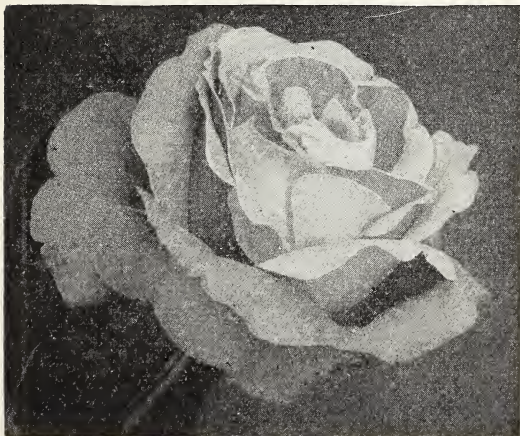
**MAGNA CHARTA**—A splendid sort. Extra large double and full.

**MARSHALL P. WILDER**—Flowers large and perfect in form. A strong, healthy grower and prolific bloomer.

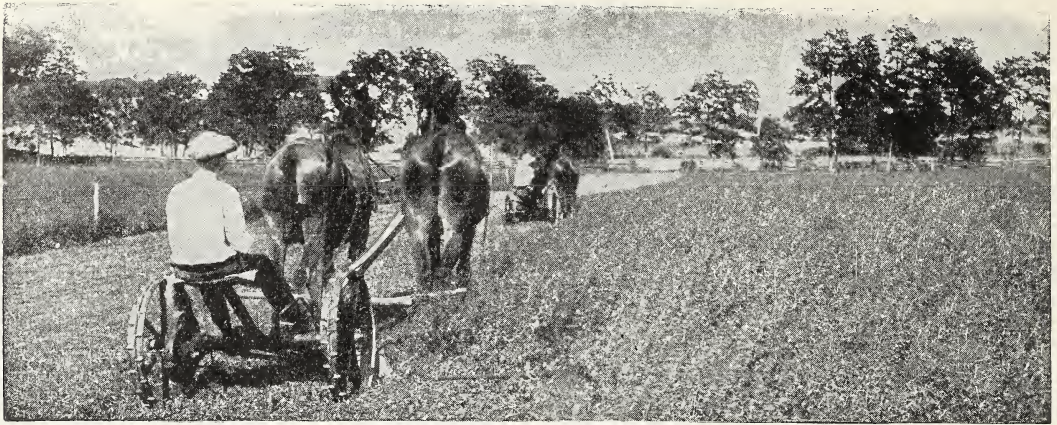
**MRS. JOHN LAING**—Soft pink, large and produced on long stems. Flowers continuously in open ground.

**PAUL NEYRON**—One of the largest and finest roses grown. Color deep shining rose. Strong and free grower.

**ULRICH BRUNNER**—This is really a magnificent rose, extra large bold flowers of good substance. Color rich glowing crimson, elegantly flamed with scarlet. A good grower and free bloomer and resists mildew.



Prairie King



Cutting a Crop of "X-L" Alfalfa

## Field Seed Department

WRITE FOR SAMPLES AND TESTS

### GRAHAM AND ROSS HI-GERMINATING ALFALFA SEED

For Prices, See Field Seed Price List.

**"X-L" BRAND** (Montana grown) The best money can buy—Our state produces the finest grade of Alfalfa grown. Montana grown Alfalfa commands a premium on all the eastern markets because of its extreme hardness. Not only has our experience of several years demonstrated the superiority of this seed under adverse weather conditions, but more recent experiments of both the Minnesota and North Dakota Agricultural Stations have established the superior hardness of Montana grown Alfalfa. The seed is over 99 per cent pure, no fodder, well scarified and graded. Sow 8 to 10 pounds to the acre. Scarified seed.



(Montana Grown, 2 Grade)—While not carrying as high a test as our "X-L" brand, this seed will prove satisfactory in every way. We recommend this brand to our Northwestern farmers because of its hardness and real economy. Our stock of this seed was produced in the high altitudes of our western basins where extremes of temperature test the parent plants to the utmost. During the great part of the growing season the days are extremely hot with very cool nights. The seed is thoroughly cleaned, plump of beautiful color, well graded, and scarified and excellent germination. Over 90 per cent pure. We have handled this seed for years and know you will find it all we claim. Scarified Seed.

**CERTIFIED GRIMM ALFALFA**—This seed was grown from registered seed, inspected and sealed by our personal representative, and certified by growers affidavit. Many of our customers who have bought this grade of seed from us in past years have nothing but the highest praise for it. It carries a purity test of 99.50 per cent and germination over 90 per cent. Scarified Seed.

### "X-L" HI-GERMINATING CLOVERS

#### SCARIFIED SWEET CLOVER

(To insure high germination, we scarify all seed)

**"X-L" HI-GERMINATING WHITE SWEET CLOVER**—Every year more farmers are learning the real value of some sweet clover as a dry land pasture and sure hay crop. Sweet clover is much harder than all other members of the clover and Alfalfa family. It is a biennial plant and makes a much better hay crop the second year than the first. White Sweet Clover is especially suited to heavy gumbo ground. It is a high and rank grower. X-L WHITE CLOVER is dry land Montana grown seed, being raised near Winnett, Mont. Sow 12 to 15 pounds to the acre. See price list.



**REGISTERED GRIMM ALFALFA** (Montana Grown)—Called the Everlasting Alfalfa. Grimm stands in the same high relation to the Alfalfa as Marquis Wheat does to the Wheat Crop. Endures extremes of cold and withstands excessive heat. Adapts itself to most all kinds of soils and has obtained a reputation for productiveness and hardness throughout the United States. Our seed is graded No. 1, graded by The Montana Seed Growers Ass'n and carries the blue tag, being over 99½ per cent pure. Plump bright, well graded and scarified seed. Sold in sealed bags only. In 5 lb., 10 lbs., 25 lb., and 50 lb., bags only. We can not break the seals so must sell in even lots. Scarified Seed.



Grimm Alfalfa

**“X-L” HI-GERMINATING YELLOW SWEET CLOVER**—The yellow clover does not grow as tall as the white and can be cut near the ground like Alfalfa. It makes an excellent hay as the stocks are not too coarse and very fine in texture. It is especially adapted for the higher dry lands of Montana. Sow 12 to 15 pounds to the acre. See price list.

**“X-L” HI-GERMINATING ALSIKE or SWEDISH CLOVER**—This clover originated in the little province of Alsike, in Sweden. It is one of the hardiest varieties known, being perennial and absolutely refuses to winter kill. It is alike capable of resisting the extreme of drought or wet. It is a low growing plant and if sown for hay should be mixed with other clover, timothy, or red top. Sow 8 to 10 pounds to the acre. See price list.

**“X-L” HI-GERMINATING WHITE DUTCH CLOVER**—An excellent pasture clover, forming in conjunction with Kentucky Blue Grass, the finest and most nutritious food for sheep and cows. It is extremely hardy and is universally used for lawns in the Northwest. Sow 5 to 8 pounds to the acre alone for pasture; for lawn, 1 pound to 400 square feet.

**“X-L” HI-GERMINATING MEDIUM RED CLOVER**—This is the most popular member of the clover family and generally regarded as the most valuable. Sometimes called June Clover. It will produce two crops of hay and usually can be depended upon for a crop of hay and a crop of seed. It has the extra advantage of succeeding, under ordinary conditions, when seeded in connection with a grain crop, thus calling for very little extra labor when a clover stand is desired on the farm. It is about two weeks earlier than mammoth red clover, and is a biennial or two year crop. May be sown either in the Spring or Fall and where no other grasses are used, at the rate of 10 to 12 pounds to the acre according to quality of seed used and condition of the soil.



**NITRAGIN FOR CLOVER INOCULATION**—When seeding clover upon land for the first time, it is well to provide for artificial inoculation. This is accomplished by either scattering 200 to 300 lbs. of soil to the acre from some old healthy weedfree clover field or by the use of pure cultures. The soil transfer method is a very satisfactory one if properly done, but the pure-culture method has the advantages of ease of transportation and freedom from danger of introducing harmful pests upon the farm. It is endorsed and recommended by agricultural authorities and practical farmers.

The Pure Culture we sell and recommend is known under the trade title “Nitrugin”. It is packed in ventilated tin containers, is easy to mix with seed and easy to handle. Directions are on each package. There is a separate culture for each variety of legume, so in ordering be sure to state the crop to be inoculated. The “one bushel” size inoculates 60 lbs. of seed. Other sizes in proportion.



Orchard Grass



Medium Red Clover

## GRASSES

**DO NOT BUY WEEDS**, you can get them for nothing. In buying clovers and grasses you should buy only the best from reputable seed firms. It is very easy to get weeds in cheap grass and clover seeds.

**“X-L” HI-GERMINATING TIMOTHY**—As a crop for hay, Timothy, is probably unsurpassed by any other grass. It is greatly relished by all kinds of stock, especially horses. It yields more nutritive matter than any other grass or forage plant. It is not suited for a permanent pasture as it will in the course of a few years run out. It is, however, well adapted to early spring grazing as it starts up quickly in the spring, and in favorable fall weather can be pastured in the autumn as well.

**“X-L” HI-GERMINATING RED TOP (Solid Seed)**—A valuable grass for moist rich soils where it thrives very luxuriantly. It is a good variety to sow with Timothy and Clover for meadow or pasture and is more permanent than either of the other two. It should be fed close. If it is allowed to grow up to seed, the cattle dislike it. On good soil it grows about two feet high; on poor gravelly land about half that height. It has been grown successfully even on alkali land where other grasses failed. Red Top is commonly known as Herd's Grass and should be more extensively grown, especially in combination with other grasses.

Solid Seed Red Top is free from chaff and weighs 14 pounds to the bushel. Only ten pounds of “Sterling” Brand required to the acre.

**“X-L” HI-GERMINATING KENTUCKY BLUE GRASS**—This makes the best, sweetest and most nutritious pasture for all kinds of stock. It is very hardy and is uninjured by cold or dry weather, hot sun or tramping of hoofs. The roots are so thick and stout that they form a tough sod. Blue Grass requires two years to get well started and for that reason it is often sown in mixture with other grasses. Sometimes called “June Grass.” From 20 to 25 pounds of seed required to the acre when sown alone.

**“X-L” HI-GERMINATING BROMUS INERMIS**—Drought defying, frost resisting. Yields enormous crops of splendid hay and affords early and abundant pasturage. It starts from two to three weeks earlier in the spring than native prairie grass and it keeps green in the autumn longer than any of the useful grasses grown in the West. No amount of cold seems to be able to kill it. It bears up well under hot summer suns. It will grow under conditions that are very dry, and it can also stand being covered with water, not deep of course, for one or two weeks in the early spring.

This grass may be sown at any time of the year when the ground is bare, but the best season is in the spring, and with or without a nurse crop. 15 pounds of good Bromus Inermis an acre is sufficient.

**“X-L” HI-GERMINATING ORCHARD GRASS**—No farm should be without a small field of X-L Orchard Grass, as in many respects it is superior to all other grasses, stands the drought well, grows in the shade, does well in wet or poor ground. The grass furnishes excellent pasturage three weeks before any other and after close grazing, ten days rest is sufficient to produce another growth. It makes a very heavy sod, and when set remains for many years. It is especially adapted for winter grazing. Sow 25 to 30 pounds to the acre. See price list.

**"X-L" HI-GERMINATING WESTERN RYE GRASS** (*Agropyrum Tenerum*) (sometimes called Slender Wheat Grass)—It affords excellent pasturage and provides large quantities of hay. It thrives on all soils, but is peculiarly adapted to prairie soils. It gives good returns on land quite strongly impregnated with alkali and fits it so that grain may be grown successfully. Twenty pounds to the acre.

**"X-L" HI-GERMINATING SUDAN GRASS**—This grass is closely related to the Cane family, but is not so coarse and yields more feed per acre, and the hay has more fattening properties. It will yield immense crops under irrigation and in rainy climates it has found favor with the Montana farmer by its ability to withstand drought. There is no forage crop known that will resist droughts like Sudan. It is an annual and requires planting each year. We were very fortunate in obtaining a supply of Montana grown seed this year. We recommend sowing this broadcast using 10 pounds to the acre. See price list.

**SAVE VALUABLE GRASS SEED**—Do not sow more seed than necessary. Uneven sowing of seed is just as wasteful as too much seed. Use a CYCLONE SEEDER. The saving in a few hours seedling will more than pay for it besides a more even seedling.

For Prices See Field Seed Price List.

**MEADOW FESCUE OR ENGLISH BLUE GRASS**

—This grass, while not as valuable as *Bromus* and Western Rye, is one of the hardiest grasses for the Northwest. It is an excellent permanent pasture grass, and the quality of the grass is high for feed purposes. This grass roots deeply and therefore withstands drought and heat exceptionally well. It also withstands severe cold very well. Also useful for a hay producer, growing to the height of three feet and possessing very nutritious qualities. Sow 15 to 20 pounds per acre.

**BARLEY**

**"X-L" HI-GERMINATING IMPROVED WHITE HULLLESS BARLEY**—While it has sufficient hull to hold it in the head, these hulls are readily separated in threshing. The absence of beards makes it safe to feed to all kinds of stock. Its earliness is a characteristic which is especially desirable. It will mature in 60 to 90 days, according to soil and locality.

For Prices See Field Seed Price List.

In Montana the farmers use it very extensively as a



Sudan Grass

catch crop. White Hullless Barley has been sown in June and had ample opportunity to mature, provided there was sufficient moisture in the ground to start germination.

The grain is exceedingly heavy, weighing from 60 to 63 pounds to the measured bushel. The yield varies according to the soil and climatic conditions, but it can be depended upon to produce from 35 to 80 bushels an acre. Its nutritive value is very great. It is fed to work horses at the rate of 2 quarts where 4 quarts of oats would be required. The best way is to mix it with oats and grind the two together for horse feed. It is also very valuable for feeding poultry, hogs and all kinds of stock. It is often grown for hay coming very early and providing rich food; should be cut just before it becomes ripe and while the straw is green. In this condition it is relished by all kinds of stock. The straw is stiff and straight, and seldom if ever does it lodge.

For grain sow  $1\frac{1}{2}$  bushels to the acre; for hay, 2 bushels.

**"X-L" HI-GERMINATING BLUE HULLLESS AND BEARDLESS**—This grain is similar to the white except in color. It is one of the largest yielders that we know of. Has a stiff beard, but will outyield the white and is a surer crop in dry weather.

**"X-L" CHEVALIER**—We recommend this new strain of barley to all growers who have preferred Hannchen in the past. Will not smut as easily as other barleys, straw very stiff, so that it does not lodge easily, grows to a good height, making it much easier to bind and handle and one of the heaviest yielding of all Two-rowed barleys.

The grain is a beautiful silvery white, very large and is a smut-resistant variety developed in Washington. For prices see price list. From tests that we have seen we recommend it to our customers as one of the best. See price list.

**HORN BARLEY**

This is a new variety just introduced in Montana and tested at the Experimental Stations at Bozeman & Moccasin. From tests made at these Stations and from individual plots, it has been proven that Horn Barley is the highest yielding of all Two Row Barleys, withstands drought and yields well in dry land, as early to mature as any of the two row barleys. We believe this new barley shall become the most popular dry land barley. See Price List.

Below we list the average yield on trial plots at Montana Agricultural stations on Horn Barley:

	Average Bushels		
Station	3 yrs.	5 yrs.	6 yrs.
Moccasin—Dry Land	—	—	48.9
Bozeman—Irrigated	73.8	72.5	—

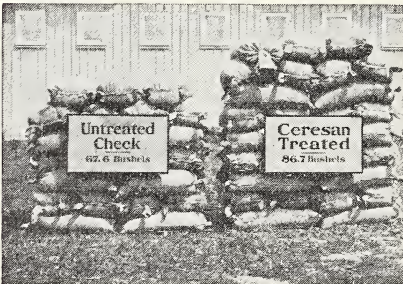
**Protect Your Grain Profits  
Increase Your Crop Yields  
with CERESAN**

Why lose part of your grain crops through smuts and other seed-borne diseases? Prevent these diseases and protect your profits by treating all seed grains with Ceresan before sowing. Effective in controlling stinking smut and seed-borne flag smut of wheat; seedling blight of cereals caused by seed-borne scab; smuts of oats; covered smut and stripe of barley; kernel smuts of sorghums and millets; and seed-borne stem smut of rye. Seed may be treated in spare time. Ceresan is harmless to seed and does not injure grain drills. Use 2 oz. per bushel of seed wheat, rye, sorghums or millets; 3 oz. for oats and barley.

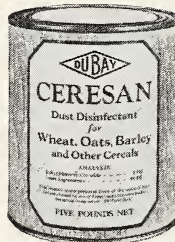
The only  
seed treat-  
ment you  
need for

Wheat  
Oats  
Barley  
Rye  
Sorghums  
Millet

1 lb. ....\$ .75  
5 lb. .... 3.00  
25 lb. ....12.50



Ceresan increased this oats yield 19.1 bushels per acre and gave perfect smut control.



## DWARF ESSEX RAPE

This is an ideal sheep feed, easily grown; perfectly hardy and possesses remarkable fattening properties. One acre will pasture 36 head of sheep two months, and lambs will make a gain of 8 to 12 pounds a month. Pigs and cattle are also very fond of it. The plant is a rank grower and should have heavy manuring as well as high cultivation. Any corn soil will grow Rape. Sow the seed by the end of June and the crop can be ready to feed at a season when it is most needed. If the soil is rich and clean, sow broadcast; if not so clean, sow in drills and cultivate as for corn. When sown broadcast use 5 lbs. and if in drills 2 lbs. to the acre.

## MILLET

**"X-L" HI-GERMINATING EARLY FORTUNE MILLET**—A most promising variety, of which astonishing yields are reported. It is very early, and is claimed to be rust proof, and that chinch bugs will not eat the plant. The seed is of a beautiful red color and distinguished in appearance, two or three times the size of German Millet. This variety heads in from 25 to 35 days. It gives a large yield both of seed and fodder. It can be fed to horses and other stock without injury, even when cut so late that the seed has formed. The seeds are smooth, the heads are branching, and in other respects this variety is similar to Hog Millet except for the color of the seed.

**"X-L" HI-GERMINATING SIBERIAN OR KURS K MILLET**—This is the greatest drought resistant of all millets and produces a very fine quality of hay. The seed is mostly red with some lighter mixture. It is the favorite and most planted of the extra hardy varieties. It is said to have come from Russia, which would of course give it vigor and hardness not possessed by those originating in a warm climate.

## FLAX SEED

**"X-L" HI-GERMINATING RUSSIAN BROWN FLAX**—Prof. Bolley of the N. D. Experiment Station especially recommends "plump, bright colored seeds—because they probably grew upon strong or vigorous mother plants and are thus not likely to be internally diseased." Northland Brand Flax is meeting with approval throughout the Northwest. It ripens in mid-season and under favorable conditions, yields splendidly. Cleaning Flax so as to make it suitable for seed is an expensive operation, requiring special machinery and often involves considerable waste, but we take great care to do this thoroughly. Send for sample and note its splendid quality. Sow 20 to 25 lbs., to the acre.

Do not attempt to plant expensive clovers and grasses by the use of a drill or by hand, use a Cyclone Seeder and obtain a more even stand with less seed. Complete description and price of this seeder found on page 29.



Early Fortune



"X-L" Victory Oats

## SEED OATS

**"X-L" HI-GERMINATING SWEDISH SELECT**—A pedigree variety introduced from Russia. Our seed is from a field that has been acclimated in Montana for the past eight years. Weighs from 35 to 45 pounds to the bushel. The straw is coarse, noted for its stiffness and power to withstand lodging. The grains are pure white in color, large thick and plump. The heads are large, upright, and bushy, they are nearly all meat, the hull being exceedingly thin, making them especially valuable as a feeding oat. Their great root development enables them to resist drought better than most other kinds. They are quite early and less liable to smut than most any other sort. Sow 50 to 60 pounds to the acre. See price list.

**"X-L" HI-GERMINATING VICTORY**—This variety matures slightly earlier than the Swedish Select. The grain is white, of medium size, short and broad. The straw is of medium height, particularly firm and elastic. It is a heavy yielding variety of thin hulled, plump white oats. Our stock this year is from a field near the mountains that has been acclimated for five years in Montana. See Price list.

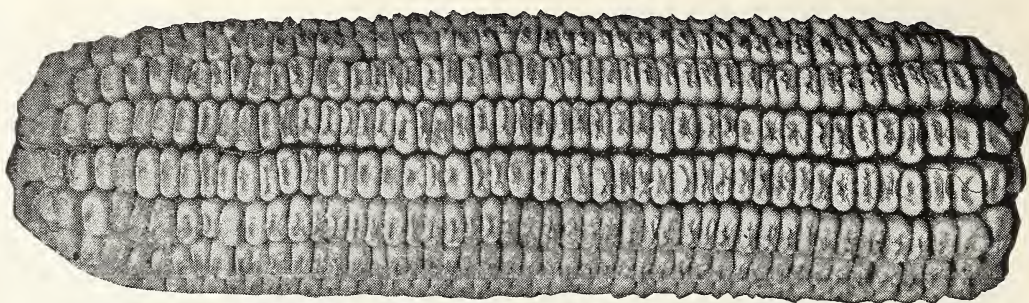
## RYE

**"X-L" HI-GERMINATING SPRING RYE**—True Stock. Spring Rye makes an excellent crop where winter grain has been killed out, or for sowing where a fall crop has not been planted. If desired it can be turned under and made to answer a good purpose in adding to the fertility of the soil. Sow seed same time as other spring grain. Does not grow quite so large straw as Winter Rye, but usually yields well and grain is of fine quality.

We wish to emphasize the fact that we sell the genuine Spring Rye, sown in the Spring and harvested the same season. We now offer an extra fine grade. To insure receiving enough for your requirements we advise placing your order early, as we have only a limited quantity. Sow about 1½ bushel per acre.

## SUPREME SPRING WHEAT

A new variety selected by Seager Wheeler of Ros-thern, Canada from Red Bobs spring wheat. From tests made at Havre, Moccasin and Bozeman, Montana, we feel sure that Supreme will become the most popular spring wheat for Montana. It has proven earlier than Marquis, has a very strong, straw which causes it to stand up well. Kernels full, large and uniform. The highest yielder of all spring wheats. Milling and baking quality of the highest. We have a limited quantity of Registered Supreme Wheat for sale. Registered by Montana Growers Association and carries the Blue Tag See Price List.



## "X-L" HI-GERMINATING MONTANA GROWN CANADIAN FIELD PEAS

EARLY MAY



Is one of the most nourishing of foods for all kinds of stock. They are noted for their soil-enriching properties and can be grown under any conditions of soil or climate. If fed to milch cows when in a green state, pods, vines and all, the flow of milk will almost double. Yields from 20 to 30 bushels on favorable soil. Sow 60 to 75 pounds per acre in drills; 75 to 120 pounds broadcast.

**MONTANA FIELD PEAS "X-L" HI-GERMINATING**—A new variety that we are introducing this year. Excellent for table use or canning besides a wonderful stock feed. Medium early, heavy foliage, extra large pods well filled. Grows to a height of  $2\frac{1}{2}$  to  $3\frac{1}{2}$  ft. A wonderful advantage in planting field peas is that they, being a Legume plant, improve and build up the soil which will greatly increase the yield of any grain planted the following year. See Price List.

## "X-L" HI-GERMINATING SPELTZ OR EMMER

**SPELTZ OR EMMER**—Each succeeding year the production of Speltz increases to an enormous extent. It grows in most any soil and resists extremes of weather. Resembles rye in habit of growth, having great feeding value, being readily eaten by all kinds of livestock.

## SUN FLOWER SEED

**"X-L" HI-GERMINATING MAMMOTH RUSSIAN**—Is a wonderful producer of exceptionally fine quality silage. Will produce as high as 12 tons to the acre. It is relished by cattle. Sow in rows wide enough apart to permit cultivating between them at the rate of 10 pounds to the acre. It is one of the best egg producing feeds for poultry and is relished by them. Single head measure 15 to 22 inches in diameter. An excellent silo feed.

## "X-L" HI-GERMINATING GREAT NORTHERN FIELD BEANS

We wish each customer of ours would plant a few acres of this bean. You will always find a ready market. Montana grown beans are known the country over and always command a premium. Will yield from 500 to 1,000 lbs. per acre and sell from \$4.00 to \$7.00 per cwt. Better than summer fallow as they are grown on dry land and greatly increased yields of wheat follow a crop of beans. Our stock of this bean was grown with great success in Cascade County last season, proving that they can be grown in the Northern section of Montana. See price list.

### HAVE YOU TRIED MULCH PAPER?

If not you do not know how easy it is to raise delicious vegetables and at the same time they mature much earlier. No weeding or hoeing. See page 53 for complete description and price.

Do not forget to order other insecticides with your freight shipment of field seeds as insecticides cannot be shipped by parcel post. By including insecticides with your field seed order you will save enough in the transportation cost to pay for one-half of the original cost.

## HIGH YIELDING, EARLY MATURING MONTANA GROWN SEED CORN

**"X-L" HI-GERMINATING MINNESOTA 13**—Is one of the most popular varieties of corn for silage and fodder purposes in the Northwest. It is adapted, however, only to good soil and favorable conditions. It will mature in a favorable year, but is on the average somewhat too late for anything but feed in our climate. Its yield of fodder and silage is very heavy and it attains near enough to maturity so that there is much dry matter in the content. It grows to a height of from seven to nine feet, depending on the season, usually bears two large ears to a stalk, which are many-rowed and of a beautiful rich yellow color, cob is red.

**"X-L" HI-GERMINATING EXTRA EARLY MINNESOTA NO. 23** (Haney Strain)—We consider this the earliest strain of Minnesota 13 and was developed by The International Harvester Co. on their experiment farm at Grand Forks, North Dakota. It meets the demand for a yellow dent in sections farther north where the standard Minnesota 13 is too late in maturity and where Northwestern and Minnesota 23 only were available before. It matures in 85 to 95 days and grows 5 to 7 feet high. Ears are 5 to 7 inches long, and 5 to 7 inches in circumference. Kernels are yellow and cob red with 12 to 16 rows.

## "X-L" HI-GERMINATING FALCONER

The Highest Yielding Of All Corn Varieties For the Northwest.

Every year this wonderful semi-dent proves more and more its very great value to the Northwest. It is earlier than any of the dents, and hardier, being a descendant from the original native Indian corn, and it has consistently outyielded all other sorts year in and year out with us. It will grow and develop in cold weather when other more tender sorts stand still. The color is a somewhat uneven yellow, rows eight to twelve, and ears very large. Grows tall. See Price List.

**"X-L" HI-GERMINATING PIONEER WHITE DENT**, (Extra Early)—Without doubt one of the best early Dents, which is not an experiment in Montana, but a tried and sure maturing corn. Stalks grow 5 and 6 ft. high with ears 24 inches from the ground. We highly recommended this variety. See price list.

**"X-L" HI-GERMINATING GEHU YELLOW FLINT**—The very earliest of flint corn producing two or three ears to the stock. For some of Montana's high altitude counties this corn is a wonder as it is drought, frost and hail resistant to a greater extent than any other variety. Its feeding qualities are the highest of any variety. See price list.

**"X-L" HI-GERMINATING WHITE FLINT**—One of the earliest of all standard varieties of flint corn. Matures in about 80 days and grows to a height of 4 to 5 feet. Especially adapted to early hogging down as the ears grow close to the ground. See Price list.

**"X-L" HI-GERMINATING ELEPHANT FODDER CORN**—A medium dent variety which has been popular because of its medium size, earlier maturity, finer and richer fodder and ease of handling through the silage cutter or when otherwise fed. It is tall growing, averaging 7 to 8 ft. It is very leafy. It has a small stalk. It will form good sized ears, thus adding to its feeding value. It is low in price. Drill in rows about  $3\frac{1}{2}$  feet apart, and 60 lbs. per acre.

## PRICE LIST ON "X-L" HI-GERMINATING FIELD SEEDS

A sample of any of the seeds quoted below will be mailed free to you so that you may compare the quality with others and test for germinating if you desire. **Current Prices**—The prices quoted below are opening prices and subject to market changes. If price of seed has advanced, order will be filled for amount of remittance; if lower, we shall refund the difference. All bags furnished free.

All amounts quoted F. O. B. Gt. Falls. Add postage, express or freight. Parcel post rates on inside of front cover.

<b>ALFALFA</b> Inoculate with Nitragin.				10	50	100
	10	50	100			
	Lbs.	Lbs.	Lbs.			
X-L Brand (Montana Grown)	\$3.50	\$15.25	\$30.00			
Montana Grown No. 2 -----	3.00	13.75	27.00			
Registered Grimm (Sealed Bags) Inoculate with Ni- tragin.						
10 lb. Sealed Bag--\$ 5.50						
25 lb. Sealed Bag-- 12.50						
50 lb. Sealed Bag-- 24.00						
100 lb. Sealed Bag-- 45.00						
We cannot break sacks of Registered Grimm.						
Affidavit Grimm -----	4.00	18.00	35.00			
<b>CLOVERS</b> (Sweet) Inoculate with Nitragin						
X-L White Blossom -----	1.20	5.25	10.00			
X-L Yellow Blossom -----	1.25	5.50	10.50			
<b>CLOVERS</b> Inoculate with Nitragin						
X-L Alsike -----	3.00	14.00	27.00			
X-L Medium -----	4.00	16.00	30.00			
X-L Mammoth -----	4.50	18.00	32.00			
X-L White Dutch -----	5.00	23.00	45.00			
<b>GRASSES</b>						
X-L Bromus or Brome -----	2.50	11.25	22.00			
X-L Kentucky Blue Grass -----	4.25	20.00	39.00			
X-L Meadow Fescue or Eng- lish Blue Grass -----	2.25	9.50	18.00			
X-L Orchard -----	3.00	12.00	23.00			
X-L Red Top -----	3.00	13.00	25.00			
X-L Sudan Grass -----	1.20	5.25	10.00			
X-L Timothy -----	1.25	5.25	10.00			
X-L Western Rye -----	1.75	8.00	15.00			
<b>BARLEY</b> (Prevent Smut with Ceresan; see p. 50)						
X-L White Hullless -----	.35	1.65	3.00			
X-L Blue Hullless and Beardless	.30	1.50	2.80			
X-L Chevalier Two Row -----	.30	1.40	2.50			
X-L Horn -----	.35	1.65	3.00			
<b>BEANS</b>						
X-L Great Northern -----	1.60	7.25	14.00			
<b>MILLET</b>						
X-L Early Fortune -----	.50	2.50	4.50			
X-L Siberian or Kursk -----	.60	2.75	5.00			
<b>OATS</b> (Prevent Smut with Ceresan; see p. 50)						
X-L Swedish Select -----	.35	1.40	2.50			
X-L New Victory -----	.35	1.50	2.60			
<b>PEAS</b> (Field)						
Early Canadian Field Peas--	1.25	5.25	10.00			
<b>POTATOES</b> (Write for Prices)						
<b>RAPE</b>						
X-L Dwarf Essex -----	1.35	6.15	12.00			
<b>RYE</b>						
X-L Spring -----	.35	1.60	2.85			
X-L Winter -----	.30	1.55	2.75			
<b>SPELTZ</b>						
X-L Emmer or Speltz -----	.30	1.45	2.60			
<b>SUNFLOWER SEED</b>						
X-L Mammoth Russian ----	1.50	5.50	10.00			
<b>CORN</b>						
	10	1/2	1			
	Lbs.	Bu.	Bu.			
X-L Minnesota 13 -----	1.15	2.50	4.50			
X-L Minnesota -----						
23 Haney Strain -----	1.00	2.25	4.25			
X-L Falconer -----	1.00	2.50	4.50			
X-L Pioneer White Dent --	1.00	2.25	4.25			
X-L Yellow Genu -----	1.00	2.25	4.25			
X-L White Flint -----	1.15	2.50	4.50			
X-L Elephant Fodder -----	.90	2.00	3.75			
<b>FLAX</b>						
X-L Russian Brown -----	.80	2.25	4.00			
<b>WHEAT</b> (Prevent Smut with Ceresan; see p. 50)						
X-L Supreme -----	.40	.95	1.60			
X-L Marquis -----	.35	.90	1.50			

## POULTRY AND STOCK FEEDS

Prices subject to market changes and stock unsold. Full value sent for amount of remittance received. **PRICES F. O. B. GREAT FALLS.**

### PREPARED FEEDS

<b>CERETANA</b>	100	50	25	10
	Lbs.	Lbs.	Lbs.	Lbs.
Buttermilk Chick Mash	\$4.25	\$2.25	\$1.25	\$0.65
Buttermilk Turkey Mash	4.35	2.30	1.30	.65
Buttermilk Growing Mash	3.90	2.15	1.15	.60
Buttermilk Growing Mash with Cod Liver Oil	4.15	2.15	1.15	.60
Chick Scratch	3.90	2.15	1.15	.60
Pullet Scratch	3.60	2.00	1.10	.60
Hen Scratch	3.15	1.65	.95	
Egg Mash with Buttermilk	3.50	1.90	1.00	
Egg Mash with C. L. Oil	3.75	1.95	1.10	
Gallatin Special Mash	3.20			
Turkey Grow-Fat and Market Finisher	3.40			
Poultry Pen Fattener	3.20			
Hog Fattener	2.50			

### DIAMOND "G"

Buttermilk Chick Mash with Yeast Foam	4.25	2.25	1.25	.65
Buttermilk Chick Mash with Manamar	4.10	2.20	1.20	.65
Buttermilk Growing Mash	3.90	2.15	1.15	.60
Buttermilk Egg Mash	3.35	1.75	1.00	.50
Special Egg Mash with Yeast Foam	3.50	1.90	1.10	.55
Egg Mash with C. L. Oil	3.70	2.00	1.10	.55
Hen Scratch	3.10	1.70	.95	.45
Common Hen Scratch	2.90	1.60	.90	.40

### MISCELLANEOUS FEEDS

	100	50	25	10
	Lbs.	Lbs.	Lbs.	Lbs.
Alfalfa Meal	2.80	1.55		
Bone Steamed (hen, chick and meal)	5.00	2.65	1.45	.65
Barley	2.25	1.25		
Barley Flour for mashes	3.10	1.70	.95	.50
Corn (No. 2 Yellow)	2.75	1.50	.85	.35
Corn (Rescreened cracked)	2.90	1.60	.90	.40
Corn Meal	3.10	1.70	.95	.45
Charcoal (Hardwood) chick hen and lump	5.00	2.50	1.40	.80
Calcite (the new egg shell maker)	1.65	1.00	.60	.25
Cod Liver Oil U. S. P. Grade No. 1	2.40	gal.		
Cod Liver Oil, Standard (Not less than 1 gal. sold)	2.10			
Dried Buttermilk	12.00	6.25	3.25	1.50
Grit (Crystal Marble)	1.75	1.00	.65	.25
Lime	3.00	1.65	1.00	.50
Meat Scraps (Darlings)	5.50	2.90	1.60	.70
Meat Scraps (Vitamont)	5.00	2.65	1.50	.70
Milo Maze	3.75	2.00	1.15	.55
Oyster Shell Flakes	1.75	1.00	.65	.25
Oats	2.25	1.25	.75	.35
Oat Flour for Mashes	3.10	1.70	.95	.50
Oats, Rolled	4.30	2.30	1.80	.65
Oat Groats	4.20	2.25	1.25	.60
Poultry Mineral	3.00	1.65	1.00	.50
Rabbit Meal	3.50	1.90	1.10	.50
Rye	2.65	1.50	.90	.40
Sunflower Seed	9.50	4.90	2.65	1.50

## DAIRY AND STOCK FEEDS

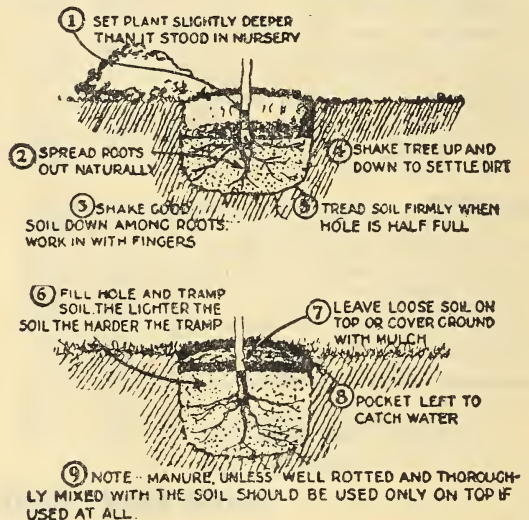
	100 Lbs.		100 Lbs.	50 Lbs.	25 Lbs.	10 Lbs.
Diamond "G"						
18% Dairy Ration -----	2.30	Calf Meal (Ceretana) ----	5.40	2.85	1.50	
In ton lots -----	45.00	Calf Meal (Blatchfords) --	6.25	3.35	1.75	
Ceretana		Calf Meal (Pratts) -----	6.00	3.15	1.60	
Econo-Milk Dairy Ration 2.15		Cotton Seed Meal -----	3.75			
18% Dairy Ration -----	2.25	Cotton Seed Cake -----	3.80	2.00	1.15	.65
Economy Farm Feed -----	2.15	Cotton Seed Cake in ton lots,				
Molasses Dairy and Home		per cwt. -----	3.70			
Mixed Feed -----	2.60	Flax Meal with Oil No. 1	9.00	4.65	2.40	1.25
Bran -----	1.40	Flax Meal with Oil No. 2	4.50	2.40	1.30	.75
Bran in ton lots -----	27.00	Linseed Oil Meal (Old Pro-				
Mixed Feed -----	1.40	cess) -----	4.50	2.40	1.30	.75
Mixed feed in ton lots ----	27.00	Pig and Sow Meal (Cere-				
Shorts or Middlings -----	1.50	tana -----	3.90	2.10	1.15	.65
Shorts or Middlings, ton lots	29.00	Salt (Special Stock) -----	1.35			
Gr. Feed (oats, corn, barley)	2.10	Salt, per 50-lb. block -----		.85		
Gr. Feed (oats, corn, barley)		Salt, per 50-lb. block, sul-				
in ton lots -----	52.00	phurized -----		.90		
Gr. Oats and Barley -----	2.25	Sulphur, per lb. .07				
Gr. Oats and Barley in ton		Stock Mineral -----	3.00	1.65	1.00	.50
lots -----	42.50	Sweet Lassy Sheep Cubes---	3.20			
Special Gr. Feed, No. 2 ----	2.10	Sweet Lassy Sheep Cubes				
Special Gr. Feed in ton lots	41.00	in ton lots, per cwt. ----	3.00			

### SEEDING TABLE

An acre contains 43,560 square feet

	Broadcast	Drilled
<b>ALFALFA</b> —For hay crop,		
on irrigated land -----	15 lbs.	12 lbs.
<b>ALFALFA</b> —For hay crop		
on dry land -----	10 lbs.	8 lbs.
<b>ALFALFA</b> —For seed crop, on		
dry land or sub-irrigated -----	8 lbs.	6 lbs.
<b>ALFALFA</b> —Pedigreed GRIMM, in		
rows 3 ft. apart to be cultivated		1 lb.
<b>CLOVER</b> —Medium Red,		
for hay crop -----	12 lbs.	10 lbs.
<b>CLOVER</b> —Sweet, for hay crop or		
to be plowed under for green		
manure -----	15 lbs.	12 lbs.
<b>TIMOTHY</b> —For hay or		
Seed Crop -----	10 lbs.	8 lbs.
<b>TIMOTHY AND ALSIKE CLOVER</b>		
—for hay or pasture -----	10 lbs.	8 lbs.
<b>RED TOP</b> —For hay crop		
or pasture -----	10 lbs.	8 lbs.
<b>BROME GRASS</b> —(Bromus Inermis)		
for hay or pasture on irrigated		
land -----	20 lbs.	15 lbs.
<b>BROME GRASS</b> —(Bromus Inermis)		
for hay or pasture on dry land	15 lbs.	12 lbs.
<b>BLUE GRASS</b> —For hay or pas-		
ture on irrigated land -----	25 lbs.	20 lbs.
<b>ORCHARD GRASS</b> —For hay or		
pasture on irrigated land -----	25 lbs.	20 lbs.
<b>EYE GRASS</b> (perennial)—For hay		
or pasture on irrigated land --	40 lbs.	30 lbs.
<b>MILLET</b> —German, Hungarian, Si-		
berian or Hog, or hay crop --	30 lbs.	25 lbs.
<b>MILLET</b> —Japanese or Billion Dol-		
lar Grass, for hay crop -----	15 lbs.	10 lbs.
<b>SUDAN GRASS</b> -----	20 lbs.	10 lbs.

### HOW TO PLANT TREES and SHRUBS



We wish to call particular attention to our new department, "Nursery Stock." There you will find the hardiest and most attractive of all trees and shrubs. In fact everything to make the home more attractive.

### Planting Time Table For Vegetable Seeds in Montana

Asparagus .... March to June	Cauliflower (Hot bed) March	Onion Sets.....March and April
Beans (All varieties) .... May	Celery (Early hot bed) .....	Onion Seed ..... April
Beets (Table varieties) .....	..... March	Parsnip ..... April
..... April to May	Celery (Late, hot bed) April	Parsley ..... May
Beets (stock) ..... May	Chervil ..... May to July	Peas ..... April to June
Broccoli (Hot bed) .... March	Cress (Pepper Grass) .....	Pepper (Hot bed) .... March
Brussels Sprouts (Hot	..... May to July	Potatoes ..... May
bed) ..... March	Cress (Water).....May to July	Pumpkin ..... May
Cabbage (Early varieties,	Corn ..... May 10 to 20	Radish ..... April to July
hot bed) ..... March	Cucumbers ..... May	Rhubarb ..... May to July
Cabbage (Late varieties,	Endive ..... April to July	Salsify ..... April and May
hot bed) ..... April	Kohl Rabi ..... May and June	Spinach ..... April to August
Cabbage (Late, in open) May	Kale ..... May	Squash ..... May
Carrots (Table varieties)	Lettuce ..... April to May	Sunflower ..... April to May
..... April and May	Leek ..... May	Turnip ..... April to May
Carrots (Stock) ..... May	Melon (Water) ..... May	Tomato (Hot bed) .... March
	Melon (Musk) ..... May	Rutabaga ..... May to June

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GALLOWAY LITHO. CO. S.  
MADE IN U.S.A.

### THE SENSIBLE COLLECTION

PROVIDES A CONTINUAL MASS OF GORGEOUS BLOSSOMS ALL SUMMER  
This assortment contains 1 packet each of the following perennials and annuals:

COLUMBINE, GAILLARDIA, VERBENA, } 50¢ POSTPAID  
SCABIOSA, STOCKS and COREOPSIS }  
COMPLETE CULTURAL DIRECTIONS FURNISHED